



# IAESTE BOLIVIA, IB

## WORK OFFER

Ref. No. BO-2019-AX-02

### Employer Information

Employer:	AXON Srl Calle Gualberto Villarroel No. 390 Santa Cruz Bolivia	Website: <a href="http://www.axon.com.bo">www.axon.com.bo</a> Location of placement: Santa Cruz, Bolivia Nearest airport: Working hours per week: 40.0 Working hours per day: 8.0
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Number of employees: 65

Business or products: ERP Software Development, Core Banking, AML Systems

### Student Required

General Discipline:	11-COMPUTER AND INFORMATION SCIENCES	Completed years of study:	4
Field of Study:	11.0101-Computer and Information Sciences, General. 11.0103-Information Technology. 11.0104-Informatics. 11.0202-Computer Programming, Specific Applications.	Language required:	English Good And Spanish Fair Or Portuguese Good

Required Knowledge and Experiences:

Other requirements:

Solid knowledge of Java, app development tools. Encryption Algorithms.  
Digital Signatures.  
Experience with mobile app development with Android.  
At work, Spanish language is not necessary, communication in English would  
be fine. But a fair Spanish language is recommended for regular activities  
outside the office.

### Work Offered

Development of payment system prototype in a mobile app under Android to issue payment orders digitally signed, for which it is required to develop a safe storage of private keys and digital certificates.

The app will interact, in a safe connection, with a server from which the payment requests will come and to which the payment orders will be delivered.  
Previous experience preferred.

Number of weeks offered:	6 - 12	Working environment:	Research and development
Within the months:	03-DEC-2018 - 31-DEC-2019	Gross pay:	4,000 BOB / Month
Or within:	-	Deduction to be expected:	0
Holidays:	-	Payment method / frequency:	/

### Accommodation

Canteen at work:	Yes	Estimated cost of lodging:	1,700 BOB / Month
Expected type of accommodation:	Student dormitory	Estimated cost of living incl. lodging:	4,000 BOB / Month

### Additional Information

In case of acceptance, we expect an offer in return in AC 2019.

### Nomination Information

Deadline for nomination:	15-JAN-2019	Please send nominations by	Exchange Platform
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Date: 02-OCT-2018 On behalf of receiving country: Patricia Pagani de Gasser



# IAESTE INDIA

## STUDENT NOMINATION

Ref. No. BO-2019-AX-02

### Personal Information

Family name:	Sadana	Date of birth:	1997-11-01
First and/or other names:	Tushar	Place of birth:	Delhi, India
Home address:	PH-03, SHIPRA KRISHNA AZURE, KAUSHAMBI , 201010 GHAZIABAD, India	Gender:	Male
Address during terms:	B4-113, Manipal University Jaipur Hostels, Dehmi Kalan, Jaipur, Rajasthan 303007	Nationality:	Indian
Phone no:	9811229061	Passport no:	Z5010490
Alternative phone no:	9660417410	Place of issue:	GHAZIABAD
Email:	tusharsadana@gmail.com	Valid until:	2028-07-26

I have no medical condition that could prevent me from undertaking a traineeship (if not, please, attach the enclosure with details)

### Study Information

General Discipline:	11-COMPUTER AND INFORMATION SCIENCES AND SUPPORT SERVICES	Languages:	English - Excellent,
Field of Study:	11.0101-Computer and Information Sciences, General		
Completed years of study:	2	Total years required:	4
University / College	MANIPAL UNIVERSITY JAIPUR		

### Working related information

Desired period of training: 2018-12-16 - 2019-01-27  
Do you wish lodging to be found for you? Yes

### Disclaimer

- I agree that the personal data, which has been provided to IAESTE, may be passed to IAESTE member countries (full members, associate members and cooperating institutions) and potential employers for the purpose of arranging my traineeship. Also my personal data may be provided to government authorities for the issuance of visa/work permit purpose.
- I am aware that I am not allowed to contact the company of the Receiving Country before being accepted. You are accepted for this training offer only after receipt of the IAESTE acceptance form.
- I confirm that all the data I provide is correct.

Date:

13-10-18

Student's signature

### For internal use

Date: 13-10-18

On behalf of sending country:

**STUDENT NOMINATED**

REF. NO. BO-2019-AX-02

**IMPORTANT:** Under no circumstances you are allowed to contact the company before being accepted. You are accepted for this training offer only after receipt of the IAESTE acceptance forms.

**Personal information**

Family Name : Sadana

Date of birth (day/month/year): 01/11/1997

First and/or other names: Tushar

Place of birth: DELHI

Home address: PH-03, SHIPRA  
KRISHNA AZURE, KAUSHAMBHI,  
GHAZIABAD, U.P. - 201010  
INDIA

Nationality : INDIAN

Passport no : Z5010490

Phone no: +91 9811229061

Issued at : GHAZIABAD

Email: tusharsadana@gmail.com

Valid until : 26/07/2028

Sex : Male

Address during terms:

Marital status: Unmarried

Manipal University Jaipur Hostel  
Room 113, Block B4  
Dehmi Kalan, Near GVK Toll Plaza  
Jaipur-Ajmer Express Highway JaipurAre you medically fit : YES  
(if not give details in encl.)

Phone no: +91 9811229061

**Study information**

University / College: Manipal University Jaipur

Knowledge of languages: English(1), Hindi(1), (1=excellent,  
2=good, 3=fair)

Faculty: Faculty of Engineering

Specialization: Computer Science Engineering

Completed years of study: 2

Total years required: 4

**IMPORTANT:** A list of subjects studied by the time training begins must be enclosed with this form as well as a Curriculum Vitae (including details of previous work) and an introductory letter to the employer.

Desired period of training (day/month/year)  
(within the period specified by the employer): from: 16-12-2018 to: 27-01-2019

Do you wish lodging to be found for you?: Yes

Are you required/do you wish to prepare a technical report during the training period?: Yes

Date: 09-10-2018

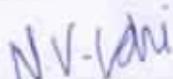
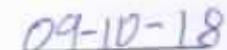
Student's signature: **For official use only**

Date:

Nominating Country:

On behalf of IAESTE India MUJ

INDIA

Nishit Lakhani  
President IAESTE MUJ

## Cover Letter

Respected Sir/Ma'am,

I was a twelve-year-old awe-struck kid fascinated by watching the aura of the computer, always tried to process the whole working of this in my head. For me this was a phenomenon which was out of reach, but later I realized all of this is achievable. This was the point where I decided to build my future in this domain. It was too early to decide but I never bothered, I wanted to dig deep and deep into computers, I decided to learn from wherever I could. I took multiple online course in several domains under the umbrella of computers exploring the depths of Website Development which expanded his knowledge in HTML, CSS, SQL, PHP, JavaScript, Vue.js and Firebase After learning all this I began focusing upon Android application development. I began to learn all over this again, his interest in this deepened learned the basics of Java. Learning Java changed his perspective about programming, I explored more languages like C and Python. Python was the one which attracted my eye, and I enjoyed learning and solving questions related to python, I slowly became very proficient in it. After so much of analysis I easily drew the conclusion of choosing a career in Computer Science and I got selected at Manipal University Jaipur with the course of my choice. Here I came across the term "Machine Learning". When I saw the applications of this concept and I spent days and nights studying about it, I explored all its dimensions from supervised learning to unsupervised, I dug deeper and learned about linear modules which included linear regression and logistic regression, polynomial model.

I have maintained an excellent academic track record throughout my academic career. I achieved 10 CGPA in grade 10 and 95.2% in grade 12. My college track record has been similarly immaculate so far, with a CGPA of 9.4 out of 10 in 4 semesters. I have also achieved the highest possible grade of A+ in the critical subjects of Object Oriented Programming in Java, Relational Database Management Systems and Data Structures, and am currently studying Design and Analysis of Algorithms. I aim and aspire to leverage my technical acumen for the betterment of society. Another application I have already created in this direction is the IoT BASED NAVIGATION FOR BLIND PEOPLE, which navigates safe pathways for them to take based on Ultrasonic Sensors and Gyroscope.

I have extensive experience in Android App Development, having developed 3 applications on Android so far. The most salient of these is an Anti-Human Trafficking app which I have developed for the Rajasthan police.

As a part of my summer internship in NUS, Singapore, I was part of a team involved in a 5 day hackathon on Kaggle. At the end of the first day, my team and I ranked eleventh out of fifteen teams. However, I am unable to settle for anything less than the very best, and the fact that we were ranked so low was not at all alright with me. From the start of the second day, we literally worked day and night until the very end. By the end of the third day we were ranked fifth, and only a couple of minutes before the deadline, my team achieved the first rank in the contest and won it. As a person, throughout my life, I have never settled for second best, and believe in giving my 100% to any and everything I do to ensure I am at its very peak.

I believe that, apart from everything, my most essential and defining trait is my insatiable hunger to learn more. I believe that throughout life, and most importantly at this stage of my life, I must learn as much as I possible can. I have always prioritised learning over everything else, and actively sought out new and diverse opportunities where I can develop. In one such instance, I learned a new programming language,

PHP overnight and erected a website using the same by the next morning. This is just one of the many instances where I have gone out of my way and out of my comfort zone to learn something new and exciting. The internship opportunity being offered to me will be another such challenging platform for me to learn so much more, all the while gaining essential international exposure. This is why, chiefly, I consider myself the perfect candidate for the internship offer.

As of now, I'm the chairperson of the most prominent technical club of my college, MUJ ACM-SCHAP which has close to 550 students enrolled and a working committee of 80 people.

Having moved around during my life I have an ability to adapt to different living conditions and make the best of where I am. I don't have any problem in adjusting to new surroundings and providing my absolute best output. I have a natural instinct to lead but that is accompanied with an equal thirst to learn from people more experienced and better skilled than me. I would face no problem in communicating with anyone because I am well versed in English.

If I get the chance to work in your prestigious corporation, it will give me a chance to help me gain experience which will help boost my career. My ability to not shy away from hard work and my excellent work ethics will also, in my humble opinion be an asset to your organization.

I thank you for your time to peruse my CV.

Yours Sincerely,  
Tushar Sadana  
(+91) 981-122-9061  
[tusharsadana@gmail.com](mailto:tusharsadana@gmail.com)

## PERSONAL INFORMATION

Tushar Sadana

 PH-03, SHIPRA KRISHNA AZURE, KAUSHAMBI, 201010 GHAZIABAD (India)

 +91 9811229061

 tusharsadana@gmail.com

## JOB APPLIED FOR

Intern as Developer

## WORK EXPERIENCE

05/2018–06/2018

**Intern**

National University of Singapore, Singapore (Singapore)

**Academic Internship in Big Data Analysis and Deep Learning.**

12/2017–01/2018

**Intern**

Association of Indian Universities, Delhi (India)

**Website Developer Intern****Redesigning Website****Developing Website****Maintenance of Website**

08/2018–Present

**Chairperson**

Association for Computing Machinery Student Chapter, MUJ, Jaipur (India)

**Managing the technical club****Student-Teaching-Student Program****Hosting technical events and workshops****Trained 140 students in Advanced Python and Machine Learning**

11/2017–Present

**Intern**

Exploration &amp; Analysis of Information Society, Jaipur (India)

**Website Developer**

8/2017–10/2017

**Team Leader**

Oneiros'17, Cultural Festival of Manipal University Jaipur, Jaipur

**Android Application - Website Developer**

## EDUCATION AND TRAINING

05/2018–06/2018

**Trained in Big Data and Hadoop System Administration**

Hewlett Packard Enterprise, Singapore (Singapore)

**Big Data****Hadoop****Spark****Cloud Era**

08/2017–11/2017

**Trained in Data Science**

Forsk Labs, Jaipur (India)

- Python
- Numpy
- Pandas
- Matplotlib
- Developing modules based on machine learning
- Data pre-processing
- ScikitLearn library to perform Regression, Classification, Clustering and Association.
- REST APIs for getting JSON data and web scrapping

24/04/2018–26/04/2018 **Login and Registration from Scratch with PHP and MySQL**

Udemy, Online (India)

PHP

MySQL

#### RESEARCH WORK

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24/02/2018–25/02/2018 **Spam Messages Detection Using Machine Learning and Natural Language Processing**

Presented in IEMIS 2018, Kolkata, West Bengal, India

02/06/2018–03/06/2018 **IoT based Navigation for Visually Impaired using Arduino & Android**

Presented in ICCDN 2018, Gangtok, Sikkim, India

19/10/2018–21/10/2018 **Handwriting Analysis Using CNN**

Accepted in ICECNS Panaji, Goa, India

#### ACHIEVEMENTS

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22/12/2017–23/12/2017 **Best Poster Award on Spam Messages Detection Using Machine Learning In International Conference On Intelligent Communication And Computational Techniques**

Manipal University Jaipur, Rajasthan, India

05/2018–06/2018 **Rank 1 in Multilingual - Multilabel Text Classification Kaggle Competition**

Manipal University Jaipur, Rajasthan, India

#### PROJECTS

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- 03/2018–Present **IoT based Navigation for Blind People**  
An IoT hardware product which helps blind people to navigate. Indoor Atlas was used to train the internal map of the college. Ultrasonic Sensors and Gyroscope where used to detect obstacles and tell the right direction to move. Moreover, for outdoor Computer Vision was implemented to detect moving vehicles and warn the person with the distance of the vehicle from the person.
- 06/2018 **Multilingual - Multilabel Text Classification**  
A dataset of about 400,000 feedbacks were used to train the model. The feedbacks were in different languages like Chinese, Korean and Japanese and 3 labels were there. The model was created on CNN and model was trained. This project was given by Dr. Wang Wei from NUS in the internship.
- 08/2018–10/2018 **Convocation MUJ**  
A web application based created by using HTML, CSS, JS, AJAX, PHP and MySQL. This is a portal for the students of Manipal University Jaipur where they can register themselves for convocation and pay. Further there is an admin panel where total number of count of students on any day out of 2 is shown, with student's detail update facility and finance confirmation with option to download the csv of student's detail.
- 06/2018–08/2018 **MUJ Connect**  
A mobile application on android used to integrate all the clubs and events of the college and take their registration at one place with managing the finance and sending them a confirmation email.
- 01/2018–04/2018 **Social Networking Site**  
A Social Networking Website in development using HTML, CSS, JavaScript, JQuery, PHP & MySQL.
- 08/2018–10/2018 **Attendance Management System on Android**  
An Android Application was created to handle attendance in ACM Student chapter Manipal University Jaipur. Students can mark their attendance by either scanning their QR code on the ID card or entering their college registration number. There are different portals for different classes or courses each with login id and password. There is an option to take the attendance in any seminar which can be created dynamically, and all the attendance can be marked. Application was created using Java and XML while Firebase was used as the DBMS.
- 09/2017–12/2017 **Spam Messages Detection Using Machine Learning**  
Python was used to create the module with different libraries of python like Scikit Learn, Pandas and Numpy.
- 11/2017 **Website for EAI Society**  
A website for EAI Society was developed to manage all the memberships and payments. Members could avail Education Videos and E-books. HTML, CSS, JavaScript was used to develop the website while Firebase was used as the DBMS.

**PERSONAL SKILLS**

Mother tongue(s)	Hindi															
Foreign language(s)	<table border="1"> <thead> <tr> <th colspan="2">UNDERSTANDING</th> <th colspan="2">SPEAKING</th> <th>WRITING</th> </tr> <tr> <th>Listening</th> <th>Reading</th> <th>Spoken interaction</th> <th>Spoken production</th> <th></th> </tr> </thead> <tbody> <tr> <td>C2</td> <td>C2</td> <td>C2</td> <td>C2</td> <td>C2</td> </tr> </tbody> </table>	UNDERSTANDING		SPEAKING		WRITING	Listening	Reading	Spoken interaction	Spoken production		C2	C2	C2	C2	C2
UNDERSTANDING		SPEAKING		WRITING												
Listening	Reading	Spoken interaction	Spoken production													
C2	C2	C2	C2	C2												
English	<p><u>Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user</u>  <u>Common European Framework of Reference for Languages</u></p>															
<b>Communication skills</b>																
<p>I in the capacity of the Chairperson of MUJ ACM-SCHAP have had a lot of experience interacting with large amount of student crowd in my college. I've mentored multiple classes organised by my club and have addressed multiple ceremonies.</p> <p>I've also participated in multiple debate competitions and MUNs in my school life and have excelled through multiple Group Discussions in interviews.</p> <p>Being a part of Manipal University Jaipur's literature society, I improve and work on my communications skills each day.</p>																
<b>Organisational / managerial skills</b>																
<p>I have a natural leadership instinct which has always led to the best possible output.</p> <p>Currently the chairperson of the most prominent technical club of my college, ACM-SCHAP which has 550 students enrolled and a working committee of 80 people.</p> <p>Convener for the technical fest 'Elicit 2018' held in my college.</p> <p>Currently working as the Advisory for the Blood Donation Camp of my college since two subsequent years.</p>																
<b>Job-related skills</b>																
<p><b>Programming Languages: Python, C, Java</b>  <b>Development Platform: HTML, CSS, JavaScript, PHP, MySQL, Firebase, Android App Development</b>  <b>Data Science: Machine Learning, Deep Learning, Natural Language Processing, Hadoop</b>  <b>UI/UX – Design: Adobe Photoshop, Illustrator</b></p>																
<b>Digital skills</b>																
<table border="1"> <thead> <tr> <th colspan="5">SELF-ASSESSMENT</th> </tr> <tr> <th>Information processing</th> <th>Communication</th> <th>Content creation</th> <th>Safety</th> <th>Problem solving</th> </tr> </thead> <tbody> <tr> <td>Proficient user</td> <td>Proficient user</td> <td>Proficient user</td> <td>Proficient user</td> <td>Proficient user</td> </tr> </tbody> </table>		SELF-ASSESSMENT					Information processing	Communication	Content creation	Safety	Problem solving	Proficient user				
SELF-ASSESSMENT																
Information processing	Communication	Content creation	Safety	Problem solving												
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user												
<u>Digital skills - Self-assessment grid</u>																
NIIT - Infoedge																
<p>Proficient user of</p> <ul style="list-style-type: none"> <li>▪ Git</li> <li>▪ Microsoft Office</li> <li>▪ Linux</li> <li>▪ Google Firebase</li> <li>▪ Microsoft Azure</li> </ul>																



भारतीय विश्वविद्यालय संघ  
ए. आई. यू. हाउस, 16, कॉमरेड इन्द्रजीत गुप्ता मार्ग  
नई दिल्ली-110 002

Association of Indian Universities  
AIU House, 16, Comrade Indrajit Gupta Marg  
New Delhi 110 002

Ref. AIU/ADM/CERT/0001/261948  
January 02, 2018

**CERTIFICATE FOR INTERNSHIP**

To Whomsoever It May Concern

This is to certify that **Shri Tushar Sadana** (College: Manipal University Jaipur, Jaipur, Rajasthan-303007; College ID: 169107181 Branch: B.Tech-CSE) has successfully completed his internship at Association of Indian Universities, New Delhi from 16.12.2017 to 02.01.2018 (03 Weeks).

During the internship, **Shri Tushar**, along with two other colleagues worked on the revamping of the AIU website and the revamped website has been accepted for implementation by the AIU.

We wish **Shri Tushar** good luck for all future endeavors and look forward to working with him again in future.



SAMPSON DAVID  
JOINT SECRETARY (Admn.)

# Manipal University Jaipur

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Date: 08/10/2018

## Letter of Recommendation

With immense pleasure I am writing this letter of recommendation for one of my favourite student Tushar Sadana. He is currently pursuing B. Tech in Computer Science and Engineering from Manipal University Jaipur and has brought laurels to the university by representing our university at national and global level as well as winning awards in those competitions.

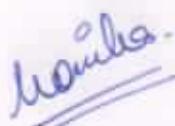
As Tushar's supervisor during his internship with EAI Society from November 2017 to December 2017. I assigned him different technical tasks. I was impressed that he performed all these tasks efficiently and within the given deadline. He also helped and guided other interns. He became a valued member of the team, and I am confident he has a successful career as a Full Stack Developer ahead.

As an intern he was assigned the task of making the website of the EAI society. He also developed an Android Application to Connect all the registrations and finance of all the college student clubs. With an intention to code for cause, he created an application for Anti-Human trafficking and Indoor Navigation for Blind People.

He was also assigned the task to create a module to detect and analyse handwriting using deep learning models, and program to detect spam messages using machine learning and natural language processing. He also worked on a project to identify Best Advertisement among few advertisements of the same product using machine learning.

With a realization that better knowledge would provide access to more advancement and nurture his talent, he wants to seek the internship at your prestigious institute for which I strongly recommend his name and urge for the same. He will definitely bring out the best and live to the expectations.

Regards and thanks



Ms. Monika Jain  
Assistant Professor (SCIT)  
Manipal University Jaipur  
Email: monika.jain@jaipur.manipal.edu  
Contact no. : - +91 9602715882

# Manipal University Jaipur

Date: 08/10/2018

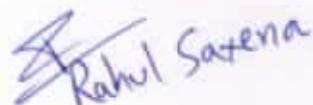
## Letter of Recommendation

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As far as I know him he is extremely dedicated and committed student as I have taught him Switching Theory and Logic Design in third semester in which his performance was appreciable. He has the special abilities to complete the desired task at the right time. He is a very good developer and have developed many android applications and website. He had developed MUJ Connect, Anti-Human Trafficking and Indoor Navigation for Blind People. He has completed boot camp in Machine Learning and created some projects with that, like Spam Messages Detector and Best Advertisement Identifier. He is fluent in Java, C and Python. He has developed many website and projects for the campus as well as offshore along with a good academic performance which showcases his multidimensional task executing skills.

With a realization that better knowledge would provide access to more advancement and nurture his talent, he wants to seek the internship at your prestigious institute for which I strongly recommend his name and urge for the same. He will definitely bring out the best and live to the expectations.

Regards and thanks



Mr. Rahul Saxena  
Assistant Professor (SCIT)  
Manipal University Jaipur  
Email: [rahul.saxena@jaipur.manipal.edu](mailto:rahul.saxena@jaipur.manipal.edu)  
Contact no. : - +91 9649121932



Sl. No. 33040

**GRADE REPORT**

Date : 22 January 2018

**BACHELOR OF TECHNOLOGY**  
(First Semester)

Branch : Computer Science & Engineering

Academic Session : 2016-2017

Reg No : 169107181

Name : TUSHAR SADANA

Course Code	Course Title	Credits	Grade
CY1101	ENGINEERING CHEMISTRY	4	A+
HS1102	HISTORY OF INDIAN SCIENCE & TECHNOLOGY	2	B
EE1101	BASIC ELECTRICAL TECHNOLOGY	4	A+
CS1101	PROGRAMMING IN C	4	A+
ES1103	ENGINEERING THERMODYNAMICS	3	A+
EN1111	TECHNICAL COMMUNICATION	3	A+
MA1101	ENGINEERING MATHEMATICS-I	4	A+
Total		24	

Credits Earned :

24

GPA : 9.04

Grade	A <sup>+</sup>	A	B	C	D	E	F/I/DT
Grade Point	10	9	8	7	6	5	0



Niti Nipun Sharma

Dean of the Faculty  
(with seal)

Dean Faculty of Engineering  
**MANIPAL UNIVERSITY JAIPUR**

Controller of Examinations  
(with seal)  
Controller of Examinations  
Manipal University Jaipur



Sl. No. 33275

**GRADE REPORT**

Date : 22 January 2018

**BACHELOR OF TECHNOLOGY**  
(Second Semester)

Branch : Computer Science & Engineering

Academic Session : 2016-2017

Reg No : 169107181

Name : TUSHAR SADANA

Course Code	Course Title	Credits	Grade
PY1101	ENGINEERING PHYSICS	5	A+
MA1201	ENGINEERING MATHEMATICS-II	4	A
ES1101	ENVIRONMENTAL STUDIES	3	A+
EC1101	BASIC ELECTRONICS	4	A+
ES1102	MECHANICS OF SOLIDS	4	A+
ME1101	ENGINEERING GRAPHICS	3	A
ME1130	BASIC WORKSHOP PRACTICE	2	B
Total			25

Credits Earned :

25

GPA : 9.50

Grade	A <sup>+</sup>	A	B	C	D	E	F/I/DT
Grade Point	10	9	8	7	6	5	0



Nipun Sharma

Dean of the Faculty  
(with seal)

Dean Faculty of Engineering  
MANIPAL UNIVERSITY JAIPUR

Controller of Examinations  
(with seal)

Controller of Examinations  
Manipal University Jaipur



**Provisional Transcript**

Branch: Computer Science & Engineering  
 Reg No: 169107181  
 Name: TUSHAR SADANA

Date 8 October 2018

169107181 Computer Science and Engineering Semester 3

Subject Code	Subject	Credit(s)	Grade	Exam
MA1307	ENGINEERING MATHEMATICS-II	3	B	Jul - Nov 2017
CS1331	DATA STRUCTURES LAB	1	A	Jul - Nov 2017
CS1332	OBJECT ORIENTED PROGRAMMING USING JAVA LAB	1	A	Jul - Nov 2017
CS1301	COMPUTER ORGANIZATION & ARCHITECTURE	4	A	Jul - Nov 2017
CS1302	SWITCHING THEORY & LOGIC DESIGN	4	A+	Jul - Nov 2017
CS1303	DATA STRUCTURES	4	A+	Jul - Nov 2017
CS1304	OBJECT ORIENTED PROGRAMMING USING JAVA	4	A+	Jul - Nov 2017
HS1301	VALUE ETHICS AND GOVERNANCE	2	A	Jul - Nov 2017
Credits earned	23		GPA	9.40
Total Credits	23		Agg Attendance %	91

*manu*  
**Controller of Examinations**  
**Manipal University Jaipur**

*vep*

*C*

**Provisional Transcript**

Branch      Computer Science & Engineering  
 Reg No      169107181  
 Name      TUSHAR SADANA

Date 8 October 2018

169107181      Computer Science and Engineering Semester 4

Subject Code	Subject	Credit(s)	Grade	Exam
HS1401	ECONOMICS	3	A	Jan - May 2018
MA1406	ENGINEERING MATHEMATICS-IV	3	B	Jan - May 2018
CS1401	OPERATING SYSTEMS	4	A+	Jan - May 2018
CS1402	RELATIONAL DATABASE MANAGEMENT SYSTEMS	4	A	Jan - May 2018
CS1403	MICROPROCESSOR & MICROCONTROLLERS	3	A	Jan - May 2018
CS1431	OPERATING SYSTEMS LAB	1	B	Jan - May 2018
CS1432	RELATIONAL DATABASE MANAGEMENT SYSTEMS LAB	1	A	Jan - May 2018
CS1433	MICROPROCESSOR & MICROCONTROLLER LAB	1	C	Jan - May 2018
CM1491	BASICS OF FINANCIAL MARKETS	3	C	Jan - May 2018
Credits earned	23		GPA	8.66
Total Credits	23		Agg Attendance %	90

Asst. Controller of Examinations  
 Manipal University Jaipur

## **LIST OF COURSES TAKEN**

### SEMESTER 1

<b>Course</b>	<b>Credits</b>
ENGINEERING CHEMISTRY	4/4
BASIC ELECTRICAL TECHNOLOGY	4/4
Programming in C	4/4
Engineering Thermodynamics	3/3
Technical Communication	3/3
ENGINEERING MATHEMATICS-I	4/4
History of Indian Science & Technology	2/2

### SEMESTER 2

<b>Course</b>	<b>Credits</b>
Engineering Physics	5/5
Engineering Mathematics-II	4/4
Environmental Studies	3/3
Basic Electronics	4/4
Mechanics of Solids	4/4
Engineering Graphics	3/3
Basic Workshop Practice	2/2

### SEMESTER 3

<b>Course</b>	<b>Credits</b>
Engineering Mathematics-III	3/3
Data Structures Lab	1/1
Object Oriented Programming using Java Lab	1/1
Computer Organization & Architecture	4/4
Switching Theory & Logic Design	4/4
Data Structures	4/4
Object Oriented Programming using Java	4/4
Value Ethics and Governance	2/2

### SEMESTER 4

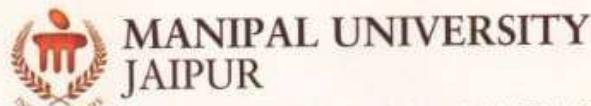
<b>Course</b>	<b>Credits</b>
Economics	3/3
Engineering Mathematics-IV	3/3
Operating Systems	4/4
Relational Database Management Systems	4/4
Microprocessor & Microcontrollers	3/3
Operating Systems Lab	1/1
Relational Database Management Systems Lab	1/1
Microprocessor & Microcontroller Lab	1/1
Financial Markets (Open Elective-I)	3/3

## SEMESTER 5

Name	Credits
Design & Analysis of Algorithms	Ongoing
Software Engineering	Ongoing
Data Communications	Ongoing
Automata & Compiler Design	Ongoing
PYTHON PROGRAMMING	Ongoing
FUNDAMENTALS OF IMAGE PROCESSING	Ongoing
Design & Analysis of Algorithms Lab	Ongoing
Software Engineering Lab	Ongoing
Automata & Compiler Design Lab	Ongoing

## **Grading System in Manipal University Jaipur (MUJ)**

The educational process at Manipal University Jaipur uses a Credit-Based System wherein the course content is expressed in number of Credits. M.U.J. has been using the Credit-Based System since the year 2011. The present system, applicable to me incorporated several modifications and is known as “Revised Credit System”. The course content of individual subjects-theory as well as practical-is expressed in terms of certain number of credits. The number of credits assigned to a subject depends on the number of contact hours per week. Normally, in case of theory subjects, the number of credits is equal to the number of contact hours per week, while in case of labs, one credit is assigned for every three contact hours per week.



Established under Act No. 21 of 2011, State of Rajasthan; Recognized u/s 2(f) of UGC Act, 1956

Date: 24.08.2018

**TO WHOMSOEVER IT MAY CONCERN**

Tushar Sadana is a student of Manipal University, Jaipur, Jaipur-Ajmer Express Highway, Dehmi Kalan, Near GVK Toll Plaza, Jaipur, Rajasthan 303007 currently studying in 5<sup>th</sup> Semester (consisting of 2 semester in one academic year) of his Bachelor's of Technology in Computer Science with college registration number 169107181.

He scored 9.84 GPA in 1<sup>st</sup> Semester, 9.56 GPA in 2<sup>nd</sup>, 9.4 GPA in 3<sup>rd</sup> and 8.66 in his 4<sup>th</sup> Semester (GPA out of 10).

He is expected to complete his graduation in the year 2020.

Dr. Satish Chandra Kulhari  
Professor & Head  
Department of Computer Science & Engineering  
School of Computing and IT (SCIT)  
Manipal University Jaipur  
Rajasthan (INDIA)  
Ph: 0141-3999100(Ext. No.719)



## IAESTE - Language Certificate

This sheet must be completed and sent with the O Form if required.

Tick Language to be tested

English  French  German  Spanish  Other  Please specify \_\_\_\_\_

Surname: SADANIA	First name: TUSHAR
Nationality: INDIAN	Study Course: ENGINEERING
How long have you studied this Language? 12 years	Last Class: 12 <sup>th</sup> Grade
Examinations Achieved and Grade: <i>Please provide additional Certificates if available</i> 12 <sup>th</sup> CBSE Board - 95/100	Dates of Examinations: March 2016

## To be completed by the Examiner

## Knowledge of Required Language

(Please tick one box for each of the four language sections)

## 1. Comprehension

Understands conversation and reads without difficulty



Understands almost everything spoken slowly and clearly



Understands with difficulty



Cannot follow conversation and written word



## 2. Speaking

Speaks fluently, correctly and is easily understood



Is understood but is not completely correct and fluent

Speaks haltingly with many mistakes

Cannot speak this language

## 3. Writing

Writes accurately with ease



Writes slowly with occasional errors

Writes with difficulty and makes many errors

Has no written ability in this Language

## 4. Reading

Reads quickly with understanding



Reads slowly, understanding only some of the text

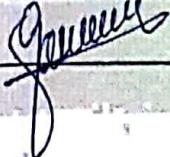
Has difficulty understanding and must look up many words

Cannot understand simple texts

## Overall Conclusion

 Excellent     Good     Fair     Poor

## Additional Comments:

Examiner: DK. Gaurav Mathur	Position: Faculty
Place and Date: MUS, 9 <sup>th</sup> Oct. 2018	Signature: 



**NUS** | Strategic Technology Management Institute  
National University  
of Singapore  
School of Computing

This is to certify that

**Tushar Sadana**

has successfully completed the Programme

**Big Data Analytics using Artificial Neural Networks**

(as part of Corporate Gurukul's Global Academic Internship Programme)

**4 June - 12 June 2018**

A handwritten signature in black ink, appearing to read "Alex Siow". It is written in a cursive style with a long horizontal stroke on the right side.

---

Professor Alex Siow

STMI Director

National University of Singapore



**Hewlett Packard  
Enterprise**

**HPE Education Services**

Awarded to

**TUSHAR SADANA**

For successfully completing training in:

**Big Data and Hadoop System Administration**  
*As part of Corporate Gurukul's Global Academic Internship Programme*

A handwritten signature in black ink.

P. Ravindra Kumar  
22 June 2018

On behalf of HPE Education Services

A handwritten signature in black ink.

Singapore Education Manager



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COMMUNICATION AND COMPUTATIONAL TECHNIQUES



**ICCT'17**

**C E R T I F I C A T E**  
OF APPRECIATION

**22-23 DECEMBER, 2017**

This is to certify that Dr. / Mr. / Ms.

Tushar Sadana  
from  
Manipal University Jaipur  
has been awarded with best poster  
for his/her poster entitled Spam messages detection using machine learning  
presented in ICCT'17 organized by School of Computing & Information Technology, Manipal University Jaipur, India.

**Prof. Sandeep Joshi**  
ORGANISING SECRETARY

**Prof. Rajveer Singh Shekhwat**  
GENERAL CO-CHAIR

**Prof. Ajay Gupta**  
GENERAL CHAIR



靈氣

# USUI SHIKI RYOOHO

This is to certify that

Tushar Sadana

has attained the Second DEGREE in

the REIKI method of Natural healing.

DATE 2.10.12

PLACE Grazebed  
U.P

Aruna

ARUNA BHATNAGAR  
TRADITIONAL REIKI MASTER  
INDEPENDENT TEACHER OF REIKI

