

# Shantanu Acharya

OPEN SOURCE · ANDROID · MACHINE LEARNING · PYTHON

National Institute of Technology, Aizawl, Mizoram, PIN: 796012, India

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## Education

### National Institute of Technology Mizoram (NIT Mizoram)

Aizawl, Mizoram, India

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING, PRE-FINAL YEAR

July 2015 - PRESENT

- CGPA of **9.61/10** (till November 2017, 5th Semester)
- Currently **department rank 1**

### Spring Dale College, Lucknow, Uttar Pradesh (ISC)

Lucknow, Uttar Pradesh, India

HIGHER SECONDARY EXAMINATION

Mar. 2012 - May. 2014

- Secured **91.80%** overall
- 97% in Computer Science

### Spring Dale College, Lucknow, Uttar Pradesh (ICSE)

Lucknow, Uttar Pradesh, India

HIGH SCHOOL

Mar. 2000 - May. 2012

- Secured **91.40%** in HSLC Examination
- 99% in Computer Applications

## Experience

### Summer Engineering Intern, IIT Bombay

IIT Bombay

IMPLEMENTATION OF REMOTE-TRIGGERED VIRTUAL LABS USING DJANGO | [GITHUB](#)

Jun. 2017 - Jul. 2017

- Worked on improving the efficiency and reliability of remote triggered virtual lab systems.
- Developed a mathematical model simulation for the Single Board Heating System.
- Added an online quiz taking interface called yaksh.
- Implemented a centralized database in order to prevent data inconsistency.
- **Tools:** Python, Django, Scilab, Apache

## Projects

### Kart

E-COMMERCE WEBSITE BUILT USING DJANGO | [WEBSITE](#) | [GITHUB](#)

Dec. 2017 - Jan. 2018

- Built the backend entirely on Django. Used jQuery in some places to make the website asynchronous.
- Used signals, custom model managers, and custom queriesets extensively to keep most of the code logic within the models and to make the communication between the linked models effective.
- **Tools:** Python, Django, Bootstrap, jQuery, Ajax, jsrender, chart.js
- **Services:** stripe, mailchimp, Amazon Web Services, heroku, sendgrid

### Autranking Amazon Reviews

MACHINE LEARNING, NATURAL LANGUAGE PROCESSING | [GITHUB](#)

Oct. 2017

- Ranking the reviews on Amazon according to their helpfulness score.
- The problem was modeled as a regression problem. The performance was evaluated by using the coefficient of determination and rank correlation.
- Predictions were made based on various categories of features of the review text, and other metadata associated with the review, with the purpose of generating a rank for a given list of reviews.
- **Tools:** Python, Numpy, Pandas, textblob, scikit-learn

### Morphosis, NIT Mizoram

NIT Mizoram

ANDROID APPLICATION | [GOOGLE PLAY STORE](#) | [GITHUB](#)

Mar. 2017 - Apr. 2017

- Android App for the annual technical fest of NIT Mizoram
- Contains all the information of various events to be conducted during the technical fest.
- Contains a game called Scooby Dooby Doo which gives live leaderboard updates.
- **Tools:** Java, Android Studio, Firebase

## Technical skills

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**Languages :** Python(Primary), JAVA, C, C++, Javascript, MySQL, JSON

**Tools/Frameworks :** git, Django, NumPy, Pandas, Tensorflow, Keras, scikit-learn, Amazon Web Services, Heroku, Android Studio, Firebase, Matlab, L<sup>A</sup>T<sub>E</sub>X, Markdown, Bootstrap, vim

**Platform :** Ubuntu(Primary), Windows

## Conference/Workshop

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2015 **SciPy India, International Conference** on Python for Scientific Computing organised by FOSSEE

*IIT Bombay*

## Relevant Courses

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### ACADEMIC

Data Structures, Discrete Mathematics, Operating Systems, Numerical Methods and Probability Theory, Design and Analysis of Algorithms, Computer Organization and Architecture, Theory of Computation, System Programming, Linear Algebra

### ONLINE/MOOC

2018 **Sequence Models**, deeplearning.ai | Grade: 100%

*Coursera*

2018 **Convolutional Neural Networks**, deeplearning.ai | Grade: 100%

*Coursera*

2017 **Structuring Machine Learning Projects**, deeplearning.ai | Grade: 100%

*Coursera*

2017 **Improving Deep Neural Networks**, deeplearning.ai | Grade: 100%

*Coursera*

2017 **Neural Networks and Deep Learning**, deeplearning.ai | Grade: 100%

*Coursera*

2016 **Introduction to Machine Learning**, Prof. Andrew Ng | Grade: 96.9%

*Coursera*

2016 **Open Source Software Development**, Kushal Das

*dgplug*

### GIAN COURSES

2017 **Deep Learning for Natural Language Processing**, Dr. Benoit Favre, Aix-Marseille University(AMU)

*France*

2016 **Natural Language Processing & Sentiment Analysis**, Prof. Alexander Gelbukh, Instituto Politécnico Nacional (IPN)

*Mexico*

2016 **Introduction to Robot Operating System**, Prof. David Pinto Avendaño, Benemérita Universidad Autónoma de Puebla (BUAP)

*Puebla, Mexico*

## Achievements & Awards

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### SCHOLASTIC

2018 **Selected for DAAD-WISE Scholarship**, for Summer Research Internship in Germany

*NIT Mizoram*

2018 **Selected for MITACS Scholarship**, for Summer Research Internship in Canada

*NIT Mizoram*

2017 **Scored an absolute 10/10 grade**, in 5th Semester | 3rd year

*NIT Mizoram*

2014 **Cleared TOEFL**, Secured 102 marks out of 120

*Lucknow*

2013 **Certificate of Merit**, The Times of India, for outstanding performance in academics

*The Times of India*

### EXTRA-CURRICULAR

2013 **Winner**, Zonal Basketball Championship Tournament

*Lucknow, U.P.*

2012 **Runner-up**, Zonal Basketball Championship Tournament

*Lucknow, U.P.*

## Positions of Responsibility

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2015 **Technical Co-ordinator**, Co-ordinated the Techno-Cultural Anunaad'15, responsible for Technical Events Management

*NIT Mizoram*

2013 **School Captain**, Elected as the Head of the Student Council, responsible for managing all events that took place in the years 2013-14

*Spring Dale College*