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SKILLS

Python

MATLAB

SQL

HTML, CSS

Microsoft Office

Microsoft Azure

Lyx

Tableau

PowerBI

Adobe Premier/Photoshop

TOOLS

PANDAS, NUMPY, MATPLOTLIB, BOKEH, SEABORN, SCIKIT- LEARN, SCIPY, CONDA, SIMULINK, KERAS, ADOBE AFTER EFFECTS, CATIA, KEYSHOT

EDUCATION

Bachelor of Technology
Mechanical Engineering
PUNJAB ENGINEERING COLLEGE

CGPA - 7.19 2014 - 2018

AISSCE, CLASS XII, CBSE
PML SD PUBLIC SCHOOL
CHANDIGARH

2013 - 2014

86.2%

AISSE, CLASS X, CBSE

KENDRIYA VIDYALYA SECTOR 47

CHANDIGARH 2011 - 2012 CGPA - 10

UJJWAL

B.TECH, MECHANICAL ENGINEERING PUNJAB ENGINEERING COLLEGE, CHANDIGARH

CERTIFICATION

DATACAMP

DATA SCIENTIST WITH PYTHON TRACK

June 2019 - December 2019

Learned how to combine statistical and machine learning techniques with Python programming to analyze and interpret complex data. Developed competency in utilizing different libraries such as Pandas, Matplotlib, Seaborn and Bokeh to create versatile and interactive data visualisations.

COURSERA

MACHINE LEARNING BY STANFORD UNIVERSITY

September 2019 - November 2019

Learned the basics of Supervised learning (Linear Regression, Logistic Regression, Neural Networks, SVMs) and Unsupervised learning (K-Means, PCA, Anamoly Detection). Gained insight in building recommender systems, bias/variance theory, regularization, learning curves and error analysis.

BUSINESS ANALYTICS SPECIALIZATION BY UNIVERSITY OF PENNSYLVANIA December 2019 - April 2020

Learned data analytics for making informed strategic decisions in business domain specifically in marketing, finance, human resources and operations.

EXPERIENCE

HAVELLS INDIA LTD., NOIDA

DESIGN ENGINEER, CRI - PUMPS

June 2018 - June 2019

Responsible for mechanical design, CAD model development with CREO, and engineering drawing development of pump components. Engaged in all phases of new product development, including concept, documentation, design, prototype and test.

CRANFIELD UNIVERSITY, U.K.

VISITING RESEARCHER (INTERNSHIP)

February 2017 - July 2017

Worked at Advanced Vehicle Engineering Centre (AVEC) for the development of an HIL (Hardware-in-loop) test rig for thermal management system of Electric Vehicle.

ACHIEVEMENTS

- Patent Published: Application No. 201911005525, Title of Invention "Pump Set Motor Assembly For Preventing Contaminant Ingress"
- Prime Minister Scholarship Scheme Awardee (also known as Pradhan Mantri Scholarship Scheme) for session 2014-2018.
- Participated in SUPRA-SAE 2016. Got All India Rank 29 out of 145 teams.
- FISITA Travel Bursary Awardee for internship at Cranfield University, UK.
- Got selected for JENESYS (Japan-East Asia Network for Students and Youths Programme) student exchange program conducted by JICE. Visited Japan for 10 days as a member of 2nd Delegation of India (28th Nov. to 6th Dec., 2011).

WORKSHOPS

VEHICLE DYNAMICS

Basics of Automobiles, Suspension, Chassis, Vehicle Terminology, Wheel Assembly, Transmission, Braking System

MANUFACTURING WORKSHOP

Basic Methods of Manufacturing Workshop Industry (Machine, Carpentry, Foundry, Welding, Forging, Automobile, etc) as a Part of Curriculum

EMBEDDED ROBOTICS

Basics of Embedded Robotics,
Making a Line Follower, Object Follower
& Bluetooth Controlled Robot

QUADCOPTER

Design Concepts of Quad Copter, Fabrication & Working, Design Software & Flight Simulators

MINOR PROJECTS

HEAT SINK MATLAB MODEL (AUG - OCT 2017)

SUSPENSION INDUCED ROBOT

(AUG-NOV 2016)

RALLY RACE ROBOT

(AUG - OCT 2015)

PORTABLE MECHANICAL CHARGER

(JAN - MAY 2018)

COMMUNITY SERVICES

MEMBER

ROTARACT CLUB CHANDIGARH HIMALAYAN 2014 - 2015

- Organized a Freeze Mob event for SAVE WATER Campaign
- Collected relief funds for Kashmir Flood Victims
- Organized Kid Olympics for Orphanage children
- Organized 'SALSA SLAM' and 'Pirates of City' event for fund raising.

INTERESTS











PROJECTS

DATACAMP PROJECTS

DATA SCIENCE AND MACHINE LEARNING PROJECTS

May 2020 - June 2020

Completed 39 guided data science and machine learning projects on jupyter notebooks.

PREVENTING CONTAMINANT INGRESS IN MONOBLOCK PUMPS

PATENT & MECHANICAL DESIGN

September 2018 - May 2019

Introduced a sealing solution for contaminant ingress protection for 14 monoblock pump models. Developed CAD models and engineering drawings of revised pump models and their components. Filed patent application (Application no. - 201911005525, title of invention - "Pump Set Motor Assembly for Preventing Contaminant Ingress") on 12/02/2019 which was pulished on 14/08/2020.

FSAE SUPRA 2017

BUSINESS TEAM

August 2016 - July 2017

Worked towards sponsorship of the project and successfully pursued Altair, Bhushan Power and Steel, Master Profiles and ECG. Worked on business presentation.

FSAE SUPRA 2016

CHASSIS AND BUSINESS TEAM

August 2015 - July 2016

Worked for development of chassis. Represented my team during business presentation. The formula car competed in SUPRA 2016 held at Buddh International Circuit (BIC), Noida. Team got overall 29 rank among 145 teams participating in the event.

SPORTS

POSITIONS OF RESPONSIBILITY

- Captain, College Basketball Team (2017 2018)
- Organising Head, Basketball Training Camp (2017 2018)
- Organising Head, College Athletic Camp (2018)
- Member, Organising committee, 69th College Athletic Meet (2016)

HONORS & AWARDS

- Certificate of Appreciation (2016), Certificate of Excellence (2017) and College Color (2018) for Sports awarded by the college.
- Best Athlete 1st Inter Technology University Athletics Meet (2015)
 - -800mtrs (Gold), 400 mtrs (Gold), 1500 mtrs (Silver)
- Best Athlete 68th PEC Annual Athletic Meet (2015)
 - 800 mtrs (Gold), 400mtrs (Gold), 400mtrs hurdles (Gold), 1500 mtrs (Silver)
- Inter Techology University Basketball Tournament (2014 2015) 3rd Position
- Inter Techology University Basketball Tournament (2017 2018) 3rd Position
 - led the College team as Captain to reach semi-finals
- Akhaada, UILS Punjab University Sports fest (2017 2018)
 - 2nd Position (Basketball) led the College team as Captain to reach finals
- Record Holder 71st PEC Annual Athletic Meet (2018)
 - 4x100mtrs relay race 48.6 seconds
- 8th PEC Mini Marathon (8kms) 10th Position out of 150+ participants
- 9th PEC Mini Marathon (8kms) 7th Position out of 200+ participants