



UJJWAL

B.TECH, MECHANICAL ENGINEERING

PUNJAB ENGINEERING COLLEGE, CHANDIGARH



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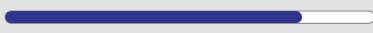
ujjwaltech.05@gmail.com

SKILLS

MATLAB



Python



Microsoft Office



SQL



Adobe Premier/Photoshop



Lyx



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

AISSE, 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

CERTIFICATION

DATA CAMP

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, Anomaly Detection). Gained insight in building recommender systems, bias/variance theory, regularization, learning curves and error analysis.

BUSINESS ANALYTICS SPECIALIZATION BY UNIVERSITY OF PENNSYLVANIA

November 2019 - Present

Learning 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 Application for Water Ingress Protection Design of Monoblock Pumps.
- 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)

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

WATER INGRESS PROTECTION OF MONOBLOCK PUMPS

PATENT APPLICATION & MECHANICAL DESIGN

September 2018 - May 2019

Introduced the mechanical design for water ingress protection for 14 monoblock pump models. Developed CAD models and engineering drawings of revised pump models and their components. Also filed the patent application for the same.

MAJOR PROJECT

PORTABLE MECHANICAL CHARGER

January 2018 - May 2018

Developed a portable human powered mechanical charger which captured the kinetic energy exerted by a person and converted it to electrical energy with the help of a pedal assisted 3 stage compound gear train and a Dynamo.

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. Also worked on business presentation presented at event which consisted of market and promotional plans of the FS car.

FSAE SUPRA 2016

CHASSIS AND BUSINESS TEAM

August 2015 - July 2016

Worked for development of chassis as a member of FSAE team. Also represented my team during business presentation in the event. 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 160+ participants
- 9th PEC Mini - Marathon (8kms) - 7th Position out of 200+ participants