

Sayantan Pal

Linkedin: sayantanpal | pal.8@iitj.ac.in | 9318327900 |

EDUCATION

IIT JODHPUR

BTECH. IN MECHANICAL ENGG.
Dec 2023(Expected) | Jodhpur, IN
CGPA: 8.02 / 10.0(upto 4th sem)

MVN, ARAVALI HILLS

Grad. May 2019 | Faridabad, India
Class XII:- 93.0%
Class X:-92.4%

SKILLS

LANGUAGES

- C • C++ • Python • Dart
- Javascript • Matlab • Latex

DEVELOPMENT

- OpenCV • Tensorflow • Natural Language processing(NLP) • Keras
- Nodejs • ReactJs • CSS • HTML5
- Bootstrap • PassportJs • EJS
- MongoDB • SQL • Git • Github
- Firebase • Heroku

OTHER SKILLS

- Solidworks • Auto CAD
- Competitive programming • Essay writing • Instrumental Music(piano)

COURSEWORK

UNDER GRADUATE

- Introduction to Machine Learning
- Introduction to python programming
- Data structures and algorithms
- Signals and Systems
- Scientific computations
- Engineering realisation
- Intro to electrical engineering
- Manufacturing processes

UDEMY

- Flutter Dart - The Complete Guide
- Deep Learning and Computer Vision A-Z™: OpenCV, SSD GANs
- The Complete 2021 Web Development Bootcamp
- Data Science and Machine Learning Bootcamp
- Machine Learning A-Z™: Hands-On Python R In Data Science

EXPERIENCE

SUNBEAM AUTO | VOCATIONAL TRAINING

Dec 2019 - Jan 2019 | Gurgaon, Haryana

- Actively took part in day to day processes across multiple departments namely Alloying, PDC, GDC, Machining Department and tool room.
- Deduced ways to reduce Rejection ratio and downtime of machines especially in the PDC department.
- Took part in assessing the performance of Robotic Arm(Yuzumi) to reduce Operational cost in the Machining department.
- Created the G-code to be fed to the VMC machines for various Tool designs running on the shop floor then.

PROJECTS

EMPIRICAL ANALYSIS OF GENERAL UTILITY PROBLEM IN MACHINE LEARNING | COURSE PROJECT

December 2020 - January 2021 | [GitHub](#)

- Self-implementation of Multi-Layer Perceptron Neural Network, Decision tree induction method and Analysis of it to find the presence of general utility problem on different domains such as DNF2 and flag domain.
- Worked out new ways to reduce overfitting, finding the optimal bias, variance and Bayes optimal classification error to extract max performance from the model.
- Tech-stack: **Python, Scikit-Learn**

QUICK LEARNER | DEVELOPER

- Built an dynamic online educational website with Nodejs for backend alongside EJS as templating engine and MongoDB as database. Encrypted Sensitive information with level 6 encryption. Used Nodemailer module to send email from server and hosted the website on Heroku.
- Integrated Google Authentication with the use of passport.js as the authentication middleware alongside using Razorpay Payment Gateway for accepting payments from customers for purchases.
- Tech-stack: **NodeJS, MongoDB, CSS, Javascript**

PARKING ALLOCATION SYSTEM | ENGINEERING DESIGN

September 2019 - July 2020

- Led a team of 8 members to conceptualise and work on a Self sustained parking allocation system to be operated in large closed and open parking spaces.
- Successfully developed working prototype and online allocation system to be implemented on large scale. Used TEG in the prototype to achieve self sustainability.
- Tech-stack: **Solidworks, Arduino, SQL**

LINKS

- LinkedIn: [Sayantan pal](#)
- Hackerrank: [psayantan29](#)
- Codechef: [vectus pirate](#)
- Github: [psayantan29](#)

ACHIEVEMENTS

- 2019 Among top 0.6 % percentile of 1.3 million Applicants in JEE Advanced -2019
- 2019 Achieved AIR-197 amongst 0.2 million applicants in WBJEE-2019
- 2019 Amongst top 0.4 % percentile of 0.2 million Applicants in BITSAT -2019