



AMAN KUMAR

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[Leetcode](#) | [CodeChef](#) | [GITHUB](#) | [LinkedIn](#)

EDUCATION

B. Tech	2020-2024	Netaji Subhas University of Technology	6.9
CBSE (Class XII)	2019	Dr. Rajendra Prasad Co-Ed Sr. Sec. School	86.8%
CBSE (Class X)	2017	Govt. Boys Secondary School	9.0 CGPA

ACADEMIC PROJECTS

- Wine Quality Predictor**: In this project I built a wine quality predictor. It takes input as a form from HTML site and based on model make prediction. Based on Data model I used ElasticNet Model. I also checked the suitable hyperparameter for model using MLflows UI. We got model with lowest error at $\alpha=0.2$ and $l1_ratio=0.9$. The RMSE was **0.7772354116082341**. I also used AWS's EC2 service on which our whole project was deployed we developed a CI/CD project and made it live as well.
 - Tech: Python, Flask, JavaScript, CSS, AWS, MLflows, MLOps, EC2 Machine, HTML
- Pest Detection**: In this project we used IoT and Machine learning to detect the pest found in various places like home, offices and fields. It uses MobileNetV2 Machine learning model and uses Raspberry Pi using a camera/ Thermal camera for night which can detect more than 20 types of pests and can alert the user through mobile app that pest has been found.
 - Hardware Required: Raspberry Pi 4, Pi Camera for Vision, USB power source, Ethernet Cable
 - Software Technologies: TFlite and TFlite Model Maker, Selenium for web scraping, Pushbullet for mobile device communication
- Crop Prediction**: A Project which predicts crop to grow in fields according to their soil nutrients, rainfall, humidity and other factors using machine learning. I used various from which XGBoost worked best on the past previous dataset. I have prepared a paper which was submitted to our professor as a report of the project.
 - This best accuracy we got for our model was about **99%** which is commendable in its own.
 - Tech: Jupyter Notebook, Numpy, Pandas, XGBoost, Decision Tree Scikit-learn, etc...

POSITIONS OF RESPONSIBILITY

As **Creative Team Volunteer** of the Official Moksha'20

- Managed a work on different creative artwork which was displayed on Fest.
- Ensured smooth functioning of the work.

As member of **DevComm** of NSUT

- Conducted several Tech Events
- Successfully helped in Innovate NSUT.

CERTIFICATION

- [Optical Character Recognition \(OCR\) Masterclass in Python](#)
- [Natural Language Processing with Classification and Vector Spaces](#)

TECHNICAL SKILLS

- Languages**: PHP, C++ (Proficient), JavaScript, SQL, Python (Intermediate)
- Framework**: React.js
- Tech Stack**: Web Development, Blockchain & Cryptocurrency, Machine Learning, LLMs, MLOps, AWS
- Computer Skills**: Operation System (Proficient), DBMS, Multithreading