VINAYAK M H

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EDUCATION

National Institute Of Technology, Karnataka   Nov 2020- April 2024
B.TECH, MECHANICAL ENGINEERING Current CGPA: 8.20/10

PROJECTS

- **Cancer Detection using XGBoost Classifier**   Sept 2022- Nov 2022
  - ◦ Developed a cancer detection system employing **XGBoost classifier**, Python, NumPy, and pandas for analyzing cell morphology features
  - ◦ Ensured reliable performance assessment and optimized model parameters, enhancing accuracy and reliability in distinguishing **cancerous** and **non-cancerous** cells.
  - ◦ Utilised **K-fold cross-validation** to assess model generalization and **Grid Search** for hyper parameter optimisation, enhancing classifier performance in cancer detection.
- **ELECTIVE ALLOTMENT WEBSITE** Github   Jun 2023- Jul 2023
  - ◦ Successfully Developed a web-based system that utilized the **Google Sheets API** to extract student preferences for elective courses.
  - ◦ Designed and implemented a **custom algorithm** for efficient and fair elective allotment.
  - ◦ Integrated **Node Mailer** to automatically notify students of their allocated electives, improving communication and transpare
- **CREDIT CARD FRAUD DETECTION**   Jul 2023- Aug 2022
  - ◦ Used **Principal Component Analysis** to reduce Dimensionality in Data
  - ◦ Played an analyst role in building credit card fraud detection system using **Machine Learning**, and Python
  - ◦ Used **Logistic Regression Model**, functions train split, and accuracy score to build classifier

EXPERIENCE

- **Intern RTLabs** Live   April 2023 - June 2023
  Web-Driven Mechanical Analyst
  - ◦ My role involved devising and implementing solutions through carefully designed experiments.
  - ◦ These experiments were brought to life using cutting-edge web technologies, enabling the simulation and analysis of mechanical scenarios.
  - ◦ Leveraging **JavaScript** libraries, I designed and implemented dynamic simulations that accurately replicated intricate real-world mechanical scenarios.
  - ◦ Additionally integrated **Data science** methodologies into these experiments. By analyzing large datasets generated from simulations simulation, enabling us to tackle complex engineering challenges with precision and insight.

SKILLS

- **Programming/DBMS**: Python, C++, MySQL
- **Data Science**: ML, DL, NLP, MsExcel, PowerBI
- **Web Technologies/Frameworks**: HTML, CSS, MERN, Git

ACHIEVEMENTS

- 3 star coder on Leetcode
- 5 star coder on HackerRank
- Secured 921 rank among 1.5lakh students in K-CET Exam, 2020
- Organised Hackathon for Savishkar where more than 50 engineering colleges participated.

CO-CURRICULAR ACTIVITIES

- Indic Renaissance Convenor **Utkrishta Bharat, NITK**
- **NITK Think India** Convenor
- Class Representative of Mechanical Branch
- **INCI-Specials** Head INCIDENT NITK
- **Treasurer** Kannada Vedike NITK
- Executive Member of **Spicmacay NITK**