Pavan Kumar Kokkiligadda

J 469-207-6377

□ pavan0417.k@gmail.com

□ linkedin.com/in/machaax

Education

Rutgers University-New Brunswick

Master of Science in Computer Science

New Brunswick, New Jersey

Indian Institute of Technology, Kharagpur

August 2018 - May 2023

January 2024 - Present

B. Tech & M. Tech (Hons.) in Mining Engineering

Kharagpur, West Bengal

Relevant Coursework

• Machine Learning

• Big Data Processing

• Probability and Statistics

• Linear Algebra

• CS 520 - Intro to AI

• CS 518 - OS Design

• CS 512 - Intro to DSA

• Advanced Calculus

Experience

Verzeo May 2022 - June 2022

Machine Learning Intern

Bangalore, Karnataka

- Developed a **Theft prevention system** that alerts users of intrusion into their house/property using computer vision.
- The system distinguishes family members as safe and sends an email with captured images if an intruder is detected.
- Built Sentiment Analysis machine learning model using SVM and count vectorizer to classify restaurant reviews as positive or negative, achieving an accuracy of 80.2 %.

InsAnalytics May 2021 - August 2021

Data Analytics Intern

Kolkata, West Bengal

- Implemented SEIR model (susceptible, exposed, infectious, recovered) to forecast COVID-19 cases Trends.
- Played an essential role in **collecting**, **cleaning**, **preparing** data for further analysis, and creating visualizations.
- Utilized Seaborn and Matplotlib for data visualizations and SciPy for curve fitting.

August 2022 - April 2023 IIT Kharagpur

Teaching Assistant

Kharagpur, West Bengal

- Assisted 3rd-year mining engineering students in performing ventilation laboratory experiments.
- Evaluated weekly Lab reports of 20 students and provided constructive feedback.

Projects

Food Delivery - Web Application | Personal Project - ReactJS, JavaScript [2]

May 2022 - August 2022

- Built a responsive food delivery website that allows users to add food items to the cart and place orders.
- Developed front-end using HTML, CSS, JS, ReactJS, and Firebase as Database and deployed on Netlify.

Vibration Analysis of HydroCyclone | Masters Thesis Project - Python

January 2023 - May 2023

- Collected time-series vibration profile data from an Industrial HydroCyclone using accelerometers and a Raspberry Pi.
- Implemented Fast Fourier Transform Algorithm(FFT) for denoising vibration signals, achieving a 6.15 dB increase in SNR, outperforming other denoising techniques.
- Discovered a positive correlation between feed inlet pressure and vibration intensity, quantified through GRMS and RMS values, across various spigot and vortex-finder configurations of HydroCyclone.

Technical Skills

Languages: Python, C/C++, Java, JavaScript, HTML, CSS, MySQL

Tools/Frameworks: ReactJS, Git/Github

Libraries: NumPy, Pandas, Matplotlib, Seaborn, scikit-learn, SciPy

Achievements

- All India Rank 4 in All India Maths Science Talent Examination 2014-2015 Gold Medal.
- All India Rank 429 in GATE-2022 Mining Engineering.
- 3-Star competitive programmer on CodeChef.