

Chetan Kumar

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Education

Chhattisgarh Swami Vivekananda Technical University 2020 - 2024
B.Tech. in Computer Science and Technology |

Experience

IIT Bhilai

Jan 2025 - Present

Research and Development Intern

Machine Learning, Time Series, ReactJS, Python

- Currently doing research and development at **IIT Bhilai** on time-series analysis for cobble detection in the **Bhilai Steel Plant**, the largest steel plant in India.
- Implementing applied machine learning techniques for real-time anomaly detection in steel manufacturing processes.
- Developing models for **detecting and preventing failures and cobbles**, ensuring smooth operations in the production line.
- Performing data analysis using **Grafana**, **Pandas**, and **NumPy** to visualize and interpret sensor data.
- Developed an **alarm monitoring system** using **Flask** and **ReactJS** for real-time alerts and issue tracking.

Prodigal AI

Feb 2024 - Apr 2024

Frontend Intern

JavaScript, ReactJS, NodeJS, CI/CD, HTML, Tailwind CSS, CSS, MaterialUI Git, GitHub

- Worked on Defi the web platform Enhanced client-side web application functionality by improving page load speed and **optimizing images**.
- Utilized **ParseHub** to efficiently scrape and **extract data**

Parsl

Open-Source Contributor

Python, Git, CI/CD

- Contributed to a **Parallel Scripting Library** Parsl project under the **University of Chicago**
- As a contributor, I have fixed handlers that work differently in the latest version of Python, and it is not safe to use Python 3.12.
- See my merged Pull request [here](#)

Projects

Sentimental Analysis App

Python, Numpy, Pandas, Streamlit, NLP, Machine Learning

- Developed an interactive sentiment analysis application that allows users to **upload their own datasets**, analyze sentiment, and view results in **real time**.
- **Integrated a file upload** feature enabling users to input custom review data.
- [Live link](#)

Text Analysis App

Python, Numpy, Pandas, Streamlit, NLP, Machine Learning

- A feature-rich text analysis application using Python, numpy, panda, Natural language toolkit. This project has functionality like **Stress detection, Spam detection, Sentiment analysis and Sarcasm detection**
- The application allows users to **input any text** and accurately identifies if the text is spam, expresses a sentiment, shows signs of stress, or contains sarcasm.
- **Real-time Analysis:** The app performs analysis in real time, providing instant feedback on the user's input.
- [Live link](#)

Certifications

JPMorgan Software Engineering Virtual Experience

100xDevs Full Stack Open Source Cohort

Skills

Python, Machine Learning, Grafana, Postgres, SQL, ReactJS, HTML, CSS, Github, Git, Linux, Docker, CI/CD, Problem Solving, Tailwind CSS

