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EDUCATION

• Vellore Institute of Technology

Bachelor of Technology - Computer Science and Engineering **CGPA: 8.20**

Bhopal, India

Aug 2022 - Sep 2026

EXPERIENCE

• CodeClause

Jan 2025 - Present

• SDE Intern

remote

- Developed a console-based e-commerce system using Java and Object-Oriented Programming (OOP) principles.
- Designed and implemented core functionalities, including product listings, shopping cart management, and checkout processes.
- Utilized OOP concepts such as classes, objects, inheritance, and encapsulation to create modular and reusable code.
- Improved application performance and maintainability by leveraging Java's Collections Framework (ArrayList, HashMap) for managing data structures.

Quantum Data Analytics Job Simulation on Forage

Jan 2024 - May 2024

• Intern

remote

- Developed expertise in data preparation and customer analytics, utilizing transaction datasets to extract valuable insights and deliver data-driven commercial recommendations.
- Extended analytical capabilities to identify benchmark stores for conducting uplift testing on trial store layouts, enabling evidence based decision-making.
- Leveraged acquired data analytics and insights from previous tasks to create comprehensive reports for the Category Manager, facilitating informed strategic decisions and enhancing commercial applications.

J.P. Morgan Software Engineering Virtual Experience on Forage

Jan 2024 - May 2024

• Software Engineer Intern

remote

- Set up a local dev environment by downloading the necessary files, tools and dependencies.
- Fixed broken files in the repository to make web application output correctly.
- Used JPMorgan Chase's open source library called Perspective to generate a live graph that displays a data feed in a clear and visually appealing way for traders to monitor.
- **Tech Stack:** Python, Javascript, Typescript, React, HTML, git, NodeJS

PROJECTS

• Winning Space Race with Data Science

Dec 2023

Python, Pandas, Numpy, Requests, BeautifulSoup, sqlite3, seaborn, matplotlib, Folium, Plotly, Dash, Scikit

- Researched and analyzed SpaceX's innovative approach to space travel, focusing on affordability through reusable rocket technology.
- Highlighted SpaceX's achievements such as spacecraft missions to the international space station, satellite constellation deployment for internet access, and manned space missions.
- Proposed using machine learning models and public data to predict the successful reuse of the first stage of rockets, influencing launch prices and competitiveness in the space industry

• Drowsiness Detection System for vehicle safety using Heart rate and eye tracking

May 2024

Python, OpenCV, Numpy, socket, OpenMDAO

- Developed a cutting-edge Drowsiness Detection System using heart rate monitoring and eye tracking technologies for enhanced vehicle safety.
- Designed algorithms to analyze heart rate variability and eye movement patterns in real-time to detect signs of drowsiness and fatigue.
- Contributed to improving road safety and accident prevention by implementing advanced drowsiness detection capabilities in vehicles.

SKILLS SUMMARY

- **Languages:** JavaScript, Python, C/C++, HTML/CSS, Java
- **Frameworks:** React, NodeJS, Flask, Django
- **Databases:** MySQL, MongoDB, Neo4j
- **Tools:** AWS, Tensorflow, Git, Docker, Pytorch, Scikit, HuggingFace, Numpy, OpenCV

ACHIEVEMENTS

- Selected to be part of the **Ericsson Edge Academia** Program
- Volunteer Experience

• Web Developer(Vit Bhopal Data Science Club)

Bhopal, India

Designed and developed a responsive website for the Data Science Club at VIT Bhopal using HTML, CSS, and JavaScript web development technologies.

Jun 2024 - Present