HARSH RANPURA

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SUMMARY

Data Science and Machine Learning enthusiast with expertise in AI-driven solutions, predictive modeling, and automation. I am a graduate student in Computer Science with experience in data analysis, ML, and cloud computing. Passionate about leveraging AI/ML to drive business impact and operational efficiency.

EDUCATION

Loyola Marymount University, Los Angeles **Aug 2023 - Present**
MS in computer science
GPA: 3.70

Gujarat Technological University, Ahmedabad, Gujarat, India **July 2019 – May 2023**
Bachelor of Engineering in Information Technology
GPA: 3.31

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C, C++, SQL, HTML, CSS, JavaScript
- **Cloud Technologies:** AWS (EC2, S3), GCP
- **Database:** MySQL, PostgreSQL, Oracle, Mongo DB
- **ML & AI:** Scikit-learn, TensorFlow, Keras, NLP, Pandas

PROFESSIONAL EXPERIENCE

Praxware Technologies, Software Development Engineer (SDE) Intern **June 2022- July 2022**

- Developed a **mobile application** using **Java** and **Kotlin** to enhance functionality and improve user experience.
- Focused on optimizing **User Interface (UI)** and **User Experience (UX)** through intuitive design and seamless interaction.
- **Technologies Used:** Java, Kotlin, HTML, XML, PHP

Axis Ray, Software Developer Intern, Gujarat, **Jan 2023- July2023**

- Gained expertise in **Advanced Java, Python**, and web technologies like **HTML**.
- Completed extensive training in **Advanced Java, Machine Learning, Artificial Intelligence**, and **Deep Learning**.
- Led the development of a College Recommendation System, utilizing machine learning algorithms to offer personalized college suggestions for Indian applicants.
- **Technologies Used:** Advanced Java, Python, HTML, Machine Learning, Artificial Intelligence, Deep Learning

PROJECTS

Event Management App, **May 2022 – June 2022**

- Build an app that helps users plan and organize events, send invitations, and manage RSVPs.
- Wrote a C program to read the data from the MPU and interpret it as hand gestures. Created a database of gestures & associated commands.
- Integrated the program with the home automation system to control various devices with gestures.

Indian College Recommendation System, **Mar 2023 – July 2023**

- Technologies Used: Java, Advanced Java, Spring Boot, Python, Machine Learning Algorithms.
- Developed an AI-powered system that recommends the most suitable college for students based on their grades and other relevant factors.
- Leveraged Machine Learning algorithms to analyze student data and predict optimal college matches.
- Delivered a system with 95% accuracy in college recommendations, helping students find the best-fit colleges

MLB Game Prediction, **Sept 2023 – Nov 2023**

- Predicting the outcomes of Major League Baseball games required sophisticated analytics
- I was tasked with creating a machine-learning model to predict MLB game outcomes.
- Implemented algorithms like Logistic Regression, Random Forest, and Neural Networks, and deployed the model on cloud platforms for real-time predictions.
- Achieved high prediction accuracy and the model was used to provide live insights during the games.

RESEARCH

- **Project Title: "Continuous Integration and Continuous Deployment, MLOps, DevOps** **Sept 2023 – Dec 2023**
- Led research on **CI/CD**, **MLOps**, and **DevOps** to enhance automation and deployment efficiency.
- Developed a **theoretical model** for integrating CI/CD in **MLOps workflows**.
- Compared tools and practices to optimize software deployment processes.
- Collaborated on simulating **CI/CD pipelines**, validating key hypotheses.