HARIDEEP REDDY BOOTHPUR

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EDUCATION

UNIVERSITY OF CENTRAL MISSOURI. ***Lee Summit, MO***
Master's in Computer Science Jan 2024 - Dec 2025
Cumulative GPA: 3.15/4.0
Relevant Coursework: Data Analysis, Python (Numpy, Pandas), SQL, Databases, Software Development

JB INSTITUTE OF ENGINEERING AND TECHNOLOGY. ***HYDERABAD, INDIA.***
Bachelor of Technology (Electrical and Electronics Engineering.) Aug 2018 - April 2022

SKILLS

Programming Languages : Java, Python, SQL.
FrontEnd Technologies : HTML/CSS, JavaScript, React.
Backend Frameworks : Spring Boot, Django.
Databases : MySQL, MongoDB.
Others :Numpy, Pandas, RESTful API, Maven, Jupyter Notebook, JUNIT, Git, GCP, Big Query.

WORK EXPERIENCE

SMITH & NEPHEW ***Noida, INDIA***
Consultant. Dec 2022 – Dec 2023

- Assisted in creating simple data schemas in SQL databases, handling small datasets up to 20 GB to learn,and maintaining basic data quality.
- Contributed to basic automation of data tasks using Python scripts, supporting 10-20 routine jobs, reducing errors by 20%.
- Automated data ingestion and transformation processes with Python scripting and Airflow, streamlining workflows for 20+ daily jobs and reducing manual errors by 75%.

UNIVERSITY PROJECTS

EMPLOYEE MANAGEMENT SYSTEM

- Developed a full-stack Employee Management System (EMS) using Java 17 and Spring Boot 3.x, enabling efficient CRUD operations for managing up to 10,000 employee records with sub-second response times.
- Utilized Maven for dependency management and build automation, streamlining the development process and resolving over 20 dependencies efficiently.
- Incorporated Spring Boot DevTools for enhanced development productivity, enabling automatic restarts and live reloading that sped up testing cycles by 40%.

APEX-GYM-SYSTEM

- Designed a resilient Gym Management System using Python, Flask, and MongoDB, creating 36 secure RESTful endpoints.

- Streamlined user verification, membership registration, course planning, and payment handling, supporting 500+ simultaneous users while cutting login errors by 95% and admin burden by 68%.
- Orchestrated 11 MongoDB collections and 45 custom functions to manage diverse data entities including admins, trainers, customers, memberships, enrollments, courses, schedules, bookings, payments, and diet plans, achieving 100% data integrity and facilitating 10x faster query responses for growing gym operations.

MF-PERFORMANCE-ANALYZER

- Developed a machine learning pipeline in Python using Jupyter Notebook to predict high-return mutual funds based on a dataset of 814 funds, incorporating features such as returns, expense ratios, Sharpe ratios, and risk levels.
- Engineered a binary classification target 'high_return' for funds with 3-year returns >15%, resulting in 55.2% positive cases (345 out of 625 funds), and analyzed distributions (e.g., equity category at 40.3%).
- Evaluated model performance using 5-fold cross-validation (mean accuracy: 99.8%), classification reports (perfect precision/recall on tuned model), confusion matrices, and feature importances, identifying top predictors returns_3yr, 5yr.
- Implemented a Random Forest Classifier from Scikit-learn, achieving a baseline test accuracy of 99.2% on an 80/20 train-test split of 625 records.