

# Harideep Reddy Boothpur.

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## SUMMARY

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Full Stack Software Developer with professional experience in building and strong expertise in building, developing and integrating ML with scalable applications. Skilled in **Machine Learning, Data Structures, and Algorithms**. Developed applications Strong problem-solver with expertise in both frontend and backend technologies, capable of architecting complete solutions from database design to user interface.

## SKILLS

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**Programming :** Java , Python , SQL , Bash, Javascript.

**Core CS :** Data Structure & Algorithms, System Design, DBMS, Complexity Analysis.

**ML & AI :** Deep Learning, Generative AI, Transfer Learning, Representation Learning.

**Model Training :** Fine-tuning, Distillation, Quantization, Inference Optimization.

**Frameworks :** PyTorch, TensorFlow, Hugging Face, scikit-learn.

**Data & Pipelines :** Data Preprocessing, Feature Engineering, ETL, Model Pipelines.

**Systems & Cloud :** Docker, Azure, CI/CD, Model Serving.

**Web & APIs :** REST APIs, React, Node.js, Backend Integration.

## EXPERIENCE

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### HCLTech — Software Engineer.

Noida, India .( Dec 2022 – Dec 2023 )

\* Developed and executed automated test **scripts** using **Python**, creating test steps for 10-20 routine **validation** jobs and reducing manual **testing** errors by 75% while improving test efficiency by 40%.

\* **Engineered scalable SQL database schemas** managing 20 GB datasets across multiple production systems, ensuring 100% data integrity and optimizing query performance for business analytics teams.

\* **Designed and deployed Database pipelines** for real-time data ingestion and transformation, processing 50,000+ records daily and improving data availability from 24 hours to near real-time.

### PanTech Solutions — Full Stack Software Developer.

Hyderabad, India. ( May 2022 - Dec 2022 )

\* Developed interactive dashboard using **React** and **Chart.js**, visualizing real-time database metrics with sub-second load times and reducing manual reporting time by 60%.

\* Built **responsive React** application with 55+ reusable components, implementing Redux state management to handle complex data flows and improving user experience across 500+ daily active users.

\* Created **inventory management system** using React and MySQL, enabling CRUD operations for 5,000+ product records with barcode scanning, search filters, and automated reorder alerts.

## PROJECTS

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### APEX 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.

\* **Streamlined development workflow** using Maven for dependency management (20+ libraries) and Spring Boot DevTools for hot-reload functionality, accelerating build automation and reducing testing cycles by 40%.

### MF-PERFORMANCE-ANALYZER

\* **Built Random Forest classification model** analyzing 814 mutual funds with features including returns, Sharpe ratios, and expense ratios to predict high-return investments (>15% 3-year returns), processing 625.

\* **Delivered 99.8% model accuracy** through 5-fold cross-validation and rigorous performance evaluation using confusion matrices and feature importance analysis, identifying returns\_3yr returns\_5yr as strongest predictions.

## EDUCATION

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UNIVERSITY OF CENTRAL MISSOURI. Lee Summit, MO. JB INSTITUTE OF ENGINEERING & TECHNOLOGY. INDIA  
Master's in Computer Science Jan 2024 - Dec 2025. ELECTRICAL & ELECTRONICS ENGINEERING, AUG 2018 - APRIL 2022