Garima Vipat

Machine Learning Engineer | Data Analyst | Business Analyst | AWS Certified

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Results-driven, Aspiring Software Engineering professional with experience in Artificial Intelligence and Machine Learning

An accomplished and detail-oriented software engineer with deep expertise in Machine Learning, Artificial Intelligence, and Full-Stack Web Development. Demonstrated proficiency in Python, database management systems, and frameworks such as Next.js, coupled with a proven track record of leading high-impact projects. Specialized in Reinforcement Learning with Human Feedback (RLHF), multi-agent workflows for customer support and financial systems, predictive modeling, and the development of scalable frontend and backend architectures. Actively seeking a challenging role to contribute to innovative solutions and drive meaningful advancements in a fast-paced, dynamic environment.

Key Skills

- C++/ Python
- Jupyter Notebook/Google Collab/ Vertex AI
- Docker/ Kubernetes
- Machine Learning/ AI
- Numpy/ Pandas
- Matplotlib/ Pytorch
- MS Excel/ MS PowerPoint
- Power BI
- Business Analytics
- MySQL/ PL/SQL
- Data Visualization/ Data Analytics

Professional Experience

Green Rider Technology **02/2024 – Present**

Software Engineer (Team Leader and Project Expert)

GRT is a team of deep-tech experts, supported by top-tier AI developers and researchers. They offer premium AI consulting and data labeling services, collaborating with leading global AI companies and investors including Scale AI, Reliance, KPMG etc.

- As a Software Engineer (Team Leader and Project Expert), I led a team to develop and optimize over 10 large language models (LLMs), achieving a 20% increase in NLP accuracy.
- Designed and implemented Reinforcement Learning workflows through Human Feedback, improving model efficiency by 25%.
- Built multi-agent workflows using Software Development Life Cycle for applications like customer support and financial suites, boosting customer satisfaction by 15%.
- Developed and trained machine learning models for Indian Crop Price Prediction, improving forecasting accuracy by 10%.
- Created and deployed scalable web applications using Next.js and Node.js, optimizing load times by 30% and enhancing user engagement by 18%.

Quantic Cloud Technologies **06/2022- 07/2022**

Machine Learning Engineer

Quantic is a leading company in the field of cloud services, data management and data migration.

- Developed a Number Plate Recognition (NPR) model using Python and advanced image processing techniques, integrating car model recognition with Vertex AI to build an end-to-end solution for vehicle identification and tracking.
- Improved system performance by 25%, optimizing the model's recognition speed and accuracy through feature engineering and hyperparameter tuning, ensuring faster processing and more reliable outputs.
- Developed high-performing machine learning solutions, improving system recognition speed by 25%.

Ypsilon IT Solutions **07/2021- 08/2021**

Software Intern

Ypsilon is a team that provides top IT and software solutions across major industries such as healthcare, hospitality, logistics, power, renewable energy, and e-commerce.

- Developed a Blood Bank software using Python and Database Management Systems (DBMS), implementing core functionalities for blood donation tracking, inventory management, and real-time updates.
- Designed and built an intuitive web interface using HTML, CSS, and JavaScript, ensuring seamless user interaction and enhancing the overall user experience for both donors and medical staff.

Professional Accreditations

- AWS Academy Cloud Foundations
- AWS Academy Cloud Architecting
- Introduction to Cybersecurity (CISCO)
- Machine Learning from Basics to Advanced (Udemy)
- Power BI Workshop Skill Nation
- Python for Data Science and Machine Learning

Key Projects

Credit Card Fraud Detection

- Developed and deployed machine learning models to detect fraudulent credit card transactions using real-world Kaggle datasets, enhancing transaction security and reducing financial risk.
- Tools: Python, Scikit-learn, Jupyter Notebook

Machine Learning Capstone Project: Predictive Analytics for Customer Churn

- Designed and implemented multiple machine learning models (KNN, Decision Trees, Naive Bayes) to predict customer churn, helping businesses improve retention strategies. Applied feature engineering, model tuning, and evaluation to achieve high model accuracy.
- Tools: Python, Scikit-learn, Pandas, Jupyter Notebook

Multi-agent Financial Analytics Suite

- Developed a machine learning-based financial analytics suite to improve portfolio tracking by 25%, automate reporting, and provide real-time insights through interactive dashboards.
- Tools: Python (ML), SQL, Power BI, Next.js, Node.js

Predictive Customer Behavior Platform

- Built a predictive platform using PyTorch and RLHF to enhance customer behavior predictions, increasing engagement by 15% and improving prediction accuracy by 20%.
- Tools: PyTorch, RLHF, Vertex AI, MySQL, Business Analytics

Portfolio Performance Optimization System

- Designed a system to optimize portfolio performance using statistical analysis and Python, delivering actionable insights and improving portfolio performance by 15%.
- Tools: Python (Pandas), Statistical Analysis, Power BI

Individual Competencies

Operational Efficiency, Inspirational Orchestrator, Interdepartmental Coordination skills with Collaborative Synergy enhancing Team Dynamics.

Education

B. Tech Computer Science - AI, Medi-Caps University	9.34 CGPA	2020–2024
12th CBSE, St. Mary's Convent School, Ujjain	88.88%	2019- 2020
10th CBSE, St. Paul's Convent School, Ujjain	91.00%	2017–2018

Extra-Curricular Activities

- Awarded Second Position in the National Science Olympiad, showcasing exceptional analytical and problem-solving skills in a competitive environment.
- Recognized as the Best Player (Man of the Match) in a Basketball Tournament, demonstrating teamwork, leadership, and strategic thinking under pressure.
- Awarded several prizes for Declamation Acts, demonstrating public speaking skills, confidence, and effective communication.

Personal Details

Indian, 17/06/2002, Female, Single