

Himanshu Vishwakarma

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Summary

A results-driven Data Scientist with a strong background in developing and deploying machine learning solutions from conception to production. Proficient in Python, data analysis, and building AI models leveraging **NLP** and **GenAI** techniques. Experienced in utilizing cloud AI services from **Azure**, **AWS**, and **GCP** and applying **MLOps** practices for efficient model lifecycle management. Proven ability to translate complex data into actionable business insights using visualization tools like **PowerBI** and **Tableau**.

Education

Dr. Abdul Kalam Technical University , B.Tech in Computer Science & Engineering

- GPA: 8.345/10
- Coursework: Machine Learning, Generative AI, Data Structures & Algorithms, Database Management Systems

Experience

Machine Learning Engineer, Circle Chess – Bengaluru

July 2025 – Present

- Led the end-to-end development of ML models, from **data collection, profiling, and EDA** to model tuning, validation, and deployment, resulting in a 15% improvement in predictive accuracy.
- Designed and implemented **GenAI-based solutions** for natural language understanding tasks, enhancing customer interaction automation.
- Presented complex findings and model performance metrics to business users and project management teams, influencing strategic decisions.
- Collaborated with data engineers to establish and streamline robust **MLOps pipelines** on **Azure**, reducing model deployment time by 30%
- Proposed and estimated ML-based solutions for new business use cases, securing project approval and resources

Machine Learning Intern, Soft Pro – Lucknow

June 2024 – Aug 2024

- Developed and deployed a variety of machine learning models using **supervised and unsupervised learning** techniques to solve key business problems.
- Performed in-depth **data preparation** and feature engineering on large-scale datasets to optimize model performance
- Created interactive dashboards and visualizations in **Tableau** to communicate data-driven insights to non-technical stakeholders.
- Worked extensively with **AWS** AI services (e.g., SageMaker, Comprehend) to build and train scalable machine learning models.
- Supported the full lifecycle of ML projects, including training, evaluation, and monitoring of deployed models.

Projects

Customer Churn Prediction using Reinforcement Learning

- Developed a predictive model to identify at-risk customers by applying **Reinforcement Learning**, leading to a targeted retention campaign that decreased churn by 10%.
- **Tech Stack:** Python, TensorFlow, Pandas, Scikit-learn, GCP AI Platform..

NLP-Powered Sentiment Analysis for Customer Feedback

- Engineered an **NLP** and **GenAI**-based solution to analyze and categorize customer feedback from multiple channels in real-time. The system achieved 95% accuracy in sentiment classification.

- **Tech Stack:** Python, PyTorch, Hugging Face Transformers, Flask, Docker, AWS.

Technologies

Programming Languages: Python (Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch)

Machine Learning: Supervised Learning (Regression, Classification), Unsupervised Learning (Clustering, Dimensionality Reduction), **Reinforcement Learning, NLP, GenAI, Computer Vision**

Cloud Platforms: Azure (Azure ML, Azure Cognitive Services), **AWS** (SageMaker, EC2, S3), **GCP** (AI Platform, BigQuery)

Data Visualization: PowerBI, Tableau, Matplotlib, Seaborn

MLOps & Tools: Docker, Git, Jenkins, Kubernetes

Web Development: Experience building python-based web applications for AI-ML use cases (Flask, Django)

Certificates

- Microsoft Certified: Azure AI Engineer Associate
- AWS Certified Machine Learning - Specialty
- Google Cloud Professional Machine Learning Engineer