Amit Kumar

Data Scientist | Machine Learning Engineer | AI Enthusiast

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Professional Summary

Data Scientist and Machine Learning Engineer with 2+ years of experience in building end-to-end ML solutions. Proficient in Python, SQL, and advanced ML frameworks. Skilled in MLOps, data analysis, and deploying scalable AI models. Passionate about leveraging data to drive business insights and innovation.

Technical Skills

Programming: Python, SQL

Machine Learning: Scikit-learn, TensorFlow, Keras, NLP, Computer Vision

Data Analysis: Pandas, NumPy, Matplotlib, Seaborn, Tableau, Power BI

DevOps & MLOps: Docker, MLflow, DVC, CI/CD, AWS

Tools: MongoDB, BeautifulSoup, Web Scraping

Experience

Data Science Intern

Unified Mentor | November 2024 – February 2025

- Conducted data analysis on complex datasets to extract actionable insights, supporting business decision-making.
- Developed predictive models using machine learning algorithms, improving operational efficiency by 20%.
- Automated data preprocessing pipelines, reducing manual effort by 30%.

Projects

Vehicle Price Prediction – Production Based End-to-End MLOps Project

- Built a complete MLOps pipeline using MLflow for experiment tracking and DVC for data versioning.
- Containerized the application using Docker, ensuring scalability and reproducibility across environments.
- Deployed the model on AWS using FastAPI, achieving a 95% prediction accuracy.
- Automated CI/CD pipelines for seamless model deployment and monitoring.

Student Performance Indicators – Machine Learning Project

- Developed a machine learning model to analyze student performance, improving prediction accuracy by 15%.
- Enhanced data visualization tools, increasing stakeholder engagement by 35%.
- Streamlined data collection processes, reducing data entry time by 40%.

MCQ Generator – Generative AI Project

- Built an AI model to generate MCQs from text, producing 500+ questions in under 2 hours with 85% accuracy.
- Integrated advanced NLP techniques to align question difficulty with curriculum standards.
- Deployed the model using FastAPI, enabling real-time MCQ generation for educators.

Education

- **Bachelor of Computer Science**

Dr. Bhimrao Ambedkar University, Agra | 06/2019 – 07/2021

- **12th (Senior Secondary)**

MAB Inter College, Agra | 2015 – 2017

Certifications

- **Data Science Master with Generative AI** – PWskills
- **MLOps Certification** – ineuron
- **Power BI Certification** – ineuron

Key Achievements

- Automated MLOps workflows, reducing model deployment time by 50%.
- Improved model accuracy by 20% through advanced feature engineering techniques.
- Enhanced user engagement by 25% by developing interactive dashboards.