

Karan Katore

Data Scientist | Machine Learning Engineer | AI Developer | Data Analyst

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🐙 github.com/karankatore01

Profile

Aspiring Software Engineer with expertise in AI, Machine Learning, and Deep Learning. Proficient in Python, C++, and various data analysis tools. Strong foundation in NLP, TensorFlow, and cloud technologies. Passionate about solving real-world challenges through innovative technology applications. Experienced in AI-driven feedback systems, predictive modeling, and Retrieval-Augmented Generation (RAG) models.

Technical Skills

Programming Languages:

Python, C++, C, JavaScript, Java, HTML, CSS.

Cloud & DevOps:

AWS (Lambda, S3, EC2), Azure.

Machine Learning & AI:

TensorFlow, Scikit-learn, Keras, PyTorch.

NLP & LLMs:

Transformers, Hugging Face, LangChain.

Data Analysis &

Processing:

Pandas, NumPy, Matplotlib, Power BI.

Other Tools:

Git, Flask, FastAPI, OpenAI API.

Databases:

MySQL, PostgreSQL.

Internships & Training

Data Science Intern

10/2024 – 03/2025

Suvidha Foundation (Suvidha Mahila Mandal)

- Successfully completed a **Data Science Internship**, focusing on **data analysis, machine learning model development, and fundraising analytics**.
- Engaged in **preprocessing and analyzing large datasets**, applying machine learning algorithms for predictive insights.
- Developed models to optimize **fundraising strategies**, leveraging data-driven decision-making to enhance donor engagement.
- Collaborated remotely for six months, maintaining strict **confidentiality** and ethical data handling standards.

Python Programming Intern

10/2023 – 11/2023

VaultofCodes

- Gained hands-on experience in **Python programming, scripting, and automation**.
- Worked on **data structures, algorithms, and object-oriented programming (OOP) principles**.
- Developed and optimized Python scripts for **data processing and analysis tasks**.
- Built mini-projects involving **web scraping, API integration, and database management**.

Projects

Retrieval-Augmented Generation (RAG)-Based AI Chatbot

- Designed and implemented an **AI chatbot** using RAG for improved contextual accuracy.
- Integrated **LangChain** and **FAISS** for efficient document retrieval and text generation.
- Deployed the model using **Flask and AWS Lambda** for scalability and real-time responses.
- Achieved a **30% improvement** in response relevance compared to traditional retrieval models.

Detecting Deceptive Feedback Using AI

- Built an **AI-based system** to identify deceptive feedback on online platforms.
- Utilized **Supervised Learning techniques** such as SVM and Random Forest on a dataset of **50,000+ feedback samples**.
- Developed a **user-friendly dashboard** using Flask and JavaScript for real-time monitoring and reporting.
- Improved **fraud detection accuracy** by **25%** compared to standard NLP-based approaches.

Age and Gender Detection

- Developed a **deep learning model** to detect age and gender from images using **transfer learning**.
- Utilized **VGG-16, TensorFlow, sklearn, and Keras** for feature extraction, training, and evaluation.
- Achieved an accuracy of **90%** for gender detection and **85%** for age estimation.
- Deployed the model for **real-time classification** on cloud-based infrastructure.

Education

Bachelor of Technology in Computer Science and Engineering <i>Sandip University</i> Aggregate CGPA: 8.07/10	12/2022 – 07/2025 Nashik, India
Diploma in Computer Engineering <i>Guru Gobind Singh Polytechnic</i> Percentage: 82.57%	08/2019 – 05/2022 Nashik, India
Class X (SSC) <i>Madhymic Vidhyalay Wadivarhe</i> Percentage: 83.60%	01/2018 – 04/2019 Nashik, India

Interests

- Cricket
- Volleyball
- Exploring AI & ML advancements

Soft Skills

Leadership • Team Collaboration • Communication • Problem-Solving • Time Management

Declaration

I hereby declare that the information provided in this resume is true and correct to the best of my knowledge and belief. I take full responsibility for the accuracy of the details mentioned.

Karan Dashrath Katore