

Ashok Pitta

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PROFILE

Data Scientist and Python Developer with experience in large-scale data analysis, predictive modeling, and NLP. Skilled in Python, SQL, TensorFlow, PyTorch, and HuggingFace, with hands-on expertise in LLMs, RAG, and HPC-based scalable ML. Currently pursuing an MSc in Artificial Intelligence at the University of Sheffield, combining academic research with industry-focused data science applications

EDUCATION

Master of Science

The University of Sheffield

- Artificial intelligence with a 2:1 degree

09/2024 – 09/2025

Sheffield, UK

Bachelor of Technology

Pragati Engineering College

- Electronics and Communication Engineering (ECE)
- CGPA: 8.14/10

07/2018 – 07/2022

Surampalem, India

PROJECTS

Web Traffic Time Series Forecasting

- Predict how many people will visit 145,000 Wikipedia pages in the future, based on past data
- Different methods: simple or advanced, spotting unusual patterns, or grouping similar pages

02/2025 – 05/2025

Flash Flood Intimation Over IoT

- The main objective of the project is to detect rising water levels in a river and intimate that information to the consulting department through IOT.
- Technologies Used: Microcontrollers, IoT sensors, data transmission protocols, and real-time monitoring tools.

11/2021 – 05/2022

A Retrieval-Augmented Generation Framework for Financial Document Understanding

- FinanceRAG Challenge (2024) – Built a Retrieval-Augmented Generation (RAG) pipeline for financial QA, integrating dense + lexical retrieval, hybrid fusion, multi-reranker ensembles, and LLM-based generation. Achieved nDCG@10 score of 0.58 on benchmark datasets, with RAGAS evaluation on answer relevance, correctness, and faithfulness.

02/2025 – 09/2025

PROFESSIONAL EXPERIENCE

Python Developer/Data Scientist

Yexponent

05/2022 – 06/2024

Hyderabad, India

- Cleaned, transformed, and visualized large-scale healthcare datasets using Python (Pandas, NumPy), Seaborn, and Matplotlib to uncover actionable insights.
- Conducted exploratory data analysis (EDA) and engineered features to support predictive modeling and machine learning pipelines.
- Designed and delivered interactive dashboards and automated weekly reports to clients and stakeholders, enabling data-driven decision-making.
- Collaborated with cross-functional teams to translate business problems into data-driven solutions and improve healthcare outcomes.

SKILLS

Programming

- Python, Java, HTML, and CSS

Data Science & Analytics

- Data Science with Python, Exploratory Data Analysis (EDA), and Power BI

Frameworks & Libraries

PyTorch, TensorFlow, HuggingFace, scikit-learn, SciPy, and Jupyter

High-Performance Computing (HPC)

- Experience with distributed training on HPC clusters (SLURM, GPU nodes), Parallelization (multi-core CPU/GPU computing), and scaling ML pipelines with PySpark & big data architectures

Databases

- Oracle SQL, Excel

Machine Learning & AI

- Scalable Machine Learning, Natural Language Processing (NLP), Text Processing, Neural Networks, reinforcement learning, Transformers, and Deep Learning

LLMs & Advanced AI

- Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), and Model deployment & optimization

IoT & Emerging Technologies

- Hands-on experience with IoT-based systems and ETL (Extract, Transform, Load) pipelines

LANGUAGES

English

IELTS 7 band



Telugu

Mother Tongue



Hindi



Spanish

