

Nischal Chandur

📍 College Park, MD | 📞 +1(858)-241-6448 | ✉ chandur.nischal2@gmail.com | 🌐 nchandur.github.io/portfolio
🌐 linkedin.com/in/nchandur | 🐙 github.com/nchandur

Summary

Aspiring Data Scientist with experience as a Data Science and Machine Learning. Skilled in enhancing anomaly detection models and developing synthetic data generation algorithms, with a focus on improving model precision and robustness. Successfully designed ML pipelines and data-driven strategies to optimize lead targeting and conversion rates. Eager to leverage technical expertise and innovative solutions to drive impactful data science projects.

Technical Skills

Machine Learning & AI: TensorFlow | Keras | Scikit-learn | PyTorch | HuggingFace | OpenCV | LangChain | SpaCy | NLTK
Probability & Statistics: Bayesian Inference | Causal Inference | Hypothesis Testing | Simulation Testing
Programming Languages: Python | R | MATLAB | C/C++ | Go | Node.js
Databases & Big Data: PostgreSQL | MySQL | MongoDB | FAISS | ChromaDB | Pinecone | Snowflake | Apache Spark
Cloud Computing & Dev Ops: Amazon Web Services (AWS) | Microsoft Azure | Databricks | Docker | Git/GitHub
Other Tools: PyTesseract | Streamlit | Flask | Gin | Fiber | React.js

Professional Experience

Data Science Graduate Intern, Ecolab – Naperville, IL, USA Jun 2024 – Aug 2024

- Enhanced anomaly detection models for cooling towers by integrating ARIMA and k-shape clustering, boosting precision by 32%, leading to proactive issue identification and reduced maintenance costs.
- Developed a high-throughput synthetic data generation algorithm in Python, simulating 10,000+ sensor readings per second to create realistic operational test cases, strengthening model robustness.

Machine Learning Engineer, Reworked.ai – Miami, FL, USA Apr 2024 – May 2024

- Designed a hybrid ML pipeline combining Bayesian decision models and ensemble learning to predict solar panel installation likelihood, optimizing lead targeting and reducing marketing costs.
- Implemented a data-driven lead acquisition strategy using neighborhood-specific scoring, improving conversion rates by 17%, increasing sales efficiency, and refining customer segmentation.

Data Scientist, Latlong (ONZE Technologies Pvt. Ltd.) – Bengaluru, KA, India Sep 2022 – Jun 2023

- Automated multilingual data extraction using PyTesseract OCR, enabling demographic analytics across multiple Indian regions, improving decision-making for location-based insights.
- Developed a Python-QGIS visualization platform to identify underperforming geographic areas, empowering financial and automotive firms to optimize resource allocation.
- Integrated geo-spatial intelligence into key business performance indicators, leading to strategic expansions for clients.

Academic Projects

Lorekeeper – University of Maryland, College Park Aug 2024 - Dec 2024

- Developed a Retrieval-Augmented Generation (RAG) model using LangChain, HuggingFace, and FAISS, improving text retrieval accuracy by 28% for large-scale literary corpora from The Lord of the Rings and The Hobbit.
- Built an interactive Streamlit interface, enabling seamless user queries and real-time knowledge retrieval, enhancing accessibility for literary research. github.com/nchandur/lorekeeper

NBA Prediction & Analysis Model – University of Maryland, College Park Aug 2023 - Dec 2023

- Built a predictive analytics pipeline leveraging ensemble learning, achieving 75% accuracy in forecasting NBA game outcomes for data-driven decision-making.
- Developed a real-time Flask dashboard, visualizing key match statistics and game insights, increasing engagement for sports analysts and fans. github.com/nchandur/NBA-prediction-model

Education

University of Maryland, College Park, MD, USA Aug 2023 – May 2025

Master of Science in Data Science

Coursework: Natural Language Processing | Computer Vision | Big Data Systems | Algorithms for Data Science

PES University, Bengaluru, KA, India Aug 2018 – May 2022

Bachelor of Technology in Electronics & Communication Engineering

Coursework: Engineering Mathematics | Linear Algebra | Random Processes | Artificial Neural Networks | Pattern Classification