

Nischal Chandur

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Technical Skills

Machine Learning & AI: TensorFlow | Keras | Scikit-learn | PyTorch | HuggingFace | OpenCV | LangChain | SpaCy | NLTK
Programming Languages: Python | R | MATLAB | C/C++ | Go | JavaScript | HTML/CSS
Databases & Big Data: PostgreSQL | MySQL | MongoDB | Snowflake | Apache Kafka
Cloud Computing & Dev Ops: Amazon Web Services (AWS) | Microsoft Azure | Databricks | Docker | Git/GitHub
Other Tools: PyTesseract | FAISS | Streamlit | Flask | Gin | Fiber

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.
- *Built an interactive Streamlit interface*, enabling *seamless user queries and real-time knowledge retrieval*, enhancing accessibility for literary research. github.com/chandurnischal/lorekeeper

Sign Language Recognition & Translation – University of Maryland, College Park Mar 2024 - May 2024

- *Engineered a real-time sign language recognition model* using a custom CNN, achieving 96% accuracy, improving accessibility.
- *Designed a Flask-based web app*, enabling global access to *gesture recognition and text-based fingerspelling translation* for real-time communication. github.com/chandurnischal/sign-language

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/chandurnischal/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 | Data Representation & Modeling | Communication in Data Science & Analytics

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