

# Nischal Chandur

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[nchandur.github.io/portfolio](https://nchandur.github.io/portfolio) | [linkedin.com/in/nchandur](https://linkedin.com/in/nchandur) | [github.com/nchandur](https://github.com/nchandur)

## SUMMARY

Data Scientist with over 2 years of experience crafting machine learning models that are high-performing, scalable and robust. Expertise in developing end-to-end ML pipelines across domains like time-series forecasting, anomaly detection, and NLP, using tools like PyTorch, TensorFlow, and AWS. Committed to building models that are accurate and practical for real-world applications, with a strong focus on transparency for users and ethical data usage. Seeking to drive impactful change by creating AI systems that are both powerful and responsible.

## EXPERIENCE

### ***Data Science Graduate Intern, Ecolab – Naperville, IL, USA***

**06/2024 – 08/2024**

- Analyzed outputs from time-series anomaly detection models and field agent action logs to construct a comprehensive validation dataset, enabling accurate performance assessment of deployed ML systems.
- Developed a robust synthetic data generation algorithm to simulate real-world sensor anomalies, reducing reliance on rare field events and accelerating model validation.

### ***Machine Learning Engineer, Reworked.ai – Miami, FL, USA***

**04/2024 – 05/2024**

- Engineered a custom machine learning model using Bayesian inference and ensemble techniques to predict solar panel adoption likelihood based on demographic and environmental features.
- Enabled targeted lead generation and sales strategy by providing address-level adoption probabilities, supporting customer acquisition and market expansion efforts.

### ***Data Scientist, Latlong (ONZE Technologies Pvt. Ltd.) – Bengaluru, KA, India***

**09/2022 – 06/2023**

- Built a multilingual OCR-based data extraction pipeline to parse public documents for demographic insights, integrating them with proprietary geospatial data for advanced analytics.
- Analyzed customer repayment behavior for a major NBFC by combining internal and geospatial data, revealing regional success patterns and enabling improved risk assessment.
- Delivered strategic sales insights to a leading automotive client by correlating store performance with demographic and regional data, driving targeted marketing and expansion efforts.

## PROJECTS

### ***Lorekeeper – RAG-based Q&A System, University of Maryland***

**08/2024 – 12/2024**

- Developed a Retrieval-Augmented Generation (RAG) system using The Lord of the Rings and The Hobbit texts, integrating vector search with Llama 3.2:1b to answer user queries with contextual precision.
- Processed and chunked PDF text intelligently, filtered non-content sections, and embedded data using optimized vector models stored in FAISS for high-relevance retrieval.
- Built an interactive Streamlit front-end with query response explanations and source transparency, enhancing user trust and interpretability of generated answers. [github.com/nchandur/lorekeeper](https://github.com/nchandur/lorekeeper)

### ***NBA Game Outcome Predictor & Analytics Dashboard, University of Maryland***

**08/2023 – 12/2024**

- Built an end-to-end predictive pipeline to forecast NBA game outcomes using ensemble ML models trained on historical team and player performance data from 1980 to present.
- Developed a Flask-based web application displaying daily matchups, predictive insights, and player/team analytics, creating a comprehensive and interactive NBA resource. [github.com/nchandur/NBA-prediction-model](https://github.com/nchandur/NBA-prediction-model)

## EDUCATION

### ***University of Maryland, College Park, MD, United States***

**08/2023 – 05/2025**

**GPA:** 3.9

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

## SKILLS

Python, R, C/C++, Go, PyTorch, TensorFlow, Scikit-learn, Keras, XGBoost, Hugging Face, SpaCy, Sentence Transformers, Large Language Models, Feature Engineering, AWS, Docker, Databricks, PostgreSQL, MongoDB, Redis, FAISS, ChromaDB, Spark, Hadoop, Dask, Flask, Streamlit, REST APIs, Git/GitHub, Tableau, Jupyter, SQL, EDA, Model Deployment, CI/CD, Unix