

VISHNESH R N

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SUMMARY

Recent AI and Data Science graduate with hands-on experience building machine learning models, deep learning systems, and end-to-end RAG pipelines. Skilled in Python, Scikit-Learn, TensorFlow, PyTorch, and LangChain, with internship experience across AI application development, software engineering, and research. Passionate about solving real-world problems through data-driven approaches, with growing exposure to model deployment, Generative AI, and scalable AI systems.

EDUCATION

St. Joseph's College of Engineering

B.Tech · Artificial Intelligence and Data Science | CGPA: 8.07/10

2022 – 2026

EXPERIENCE

CodeWork

AI Intern

Chennai

Jan 2026 – Apr 2026

- Designed and implemented end-to-end RAG pipelines including data ingestion, embedding generation, vector storage (Pinecone), and semantic retrieval using LangChain and LangGraph.
- Built and deployed scalable AI applications using MCP Protocol and LLM APIs (Claude, OpenAI), integrating FastAPI-based endpoints to serve model responses in production environments.
- Applied feature engineering and preprocessing techniques on unstructured datasets performed model performance monitoring and iterative optimization to improve accuracy and context-awareness.
- Implemented prompt engineering strategies and fine-tuned LLM workflows tracked experiments and model metrics to support continuous improvement cycles.
- Collaborated with cross-functional teams, participated in code reviews, and documented model performance metrics and implementation details following engineering best practices.

FORD Motor

Software Developer Intern

Chennai

Jun 2025 – Jul 2025

- Migrated legacy codebases to modern technologies and contributed to a new application using RESTful APIs with structured Controller and Service layers.
- Designed Request and Response classes to handle data flow efficiently, improving code maintainability, scalability, and system performance.
- Collaborated with engineering teams, followed software best practices, and used Git for version control and code review workflows.

ISRO

In-Plant Training

Nagercoil

Jun 2024 – Jul 2024

- Study of AI technique and Data Science based on the case studies /Project works.
- Computer Networking System, Overview of application software and application of computer for liquid rocket engine testing.

PROJECTS

Churn Prediction – ChurNet

TensorFlow · Keras · Scikit-Learn · Python

Deep Learning

Nov 2024 – Jan 2025

- Developed ChurNet, a deep learning model achieving 97.52% accuracy for customer churn prediction in the telecom sector.
- Applied feature engineering, SMOTEEN oversampling, and attention mechanisms; validated with 10-fold cross-validation. Tracked model metrics across training runs.

Time Series Pharmacy Dashboard

Pandas · SARIMA · Streamlit · Python

- Built a time series forecasting pipeline on pharmacy sales data; applied SARIMA for monthly trend prediction and deployed an interactive Streamlit dashboard for visualization.
- Performed data preprocessing, feature engineering, and model evaluation; documented performance metrics for stakeholder reporting.

Machine Learning & Data Science

Sep 2025 – Oct 2025

Tremble – Biological Age Prediction

Python · Physics-Informed Neural Networks (PINN) · OpenCV

- Developed a PINN-based model for biological age estimation using facial and skin image analysis (wrinkle, acne, texture patterns) to support plastic surgery assessment.
- Used OpenCV for image preprocessing and feature extraction; evaluated model on held-out test sets with quantitative performance metrics.

Deep Learning

Weather-Predicted Smart Drip Irrigation

Arduino · Open Weather API · Sensors

- The primary objective: To provide predicted weather report using AI.
- The secondary objective: To supply automated irrigation system by checking the soil quality using sensors. to control the pest attack by mixing an organic pest control mixture called PANCHAGAVYA with the water during irrigation at estimated time period of pest attack.

IoT

Oct 2024

SKILLS

Programming Languages: Python, C, SQL
ML & Data Libraries: Scikit-Learn, NumPy, Pandas, Matplotlib, TensorFlow, Keras, PyTorch, OpenCV
AI & GenAI Frameworks: LangChain, LangGraph, Agno, MCP Protocol, Claude Code, Pinecone (Vector DB), Prompt Engineering
Deployment & MLOps: FastAPI, Streamlit, Git, Docker, MLflow
Domain Knowledge: Machine Learning, Deep Learning, NLP, Computer Vision, RAG, Generative AI, Time Series Analysis, Feature Engineering, Model Deployment
Soft Skills: Team Collaboration, Technical Communication, Leadership, Documentation

CERTIFICATIONS

Data Science for Engineers – NPTEL (IIT)	Sep 2024
Python for Data Science (Elite) – NPTEL (IIT)	Feb 2025
Business Analytics & Data Mining using R – NPTEL (IIT)	Aug 2025
System and Usable Security – NPTEL(IIT)	Jan 2026
Data Science and Analytics – HP LIFE	Apr 2025
Machine Learning Professional Certification – RapidMiner	

CONFERENCES & WORKSHOPS

Cloud Storage – Pragyan, NIT Trichy	Feb 2024
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LANGUAGES

English (Professional Working Proficiency) | Tamil (Native)