

Kavipriya Kaliyappan

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SUMMARY

Detail-oriented and motivated student pursuing **B.Tech in Artificial Intelligence and Data Science**. Passionate about **data research, analytics, and cloud technologies** with hands-on experience in **Python, SQL, and data visualization**. Certified **Oracle Cloud Infrastructure 2025 AI Foundations Associate**, with a strong interest in applying **data-driven insights** to solve real-world problems and support **intelligent decision-making**.

TECHNICAL SKILLS

Programming	Python (Pandas, NumPy, Matplotlib)
Data Tools	Excel, Google Sheets, SQL, Power BI
Database	MySQL
Web/Research	Data Collection, Web Scraping, Desk Research
Version Control	Git, GitHub
Operating Systems	Linux (Ubuntu), Windows

PROJECTS

Sign Language Prediction

- Collaborated with a team to build a **real-time sign language recognition system** that detects and translates hand gestures (A–Z) using **CNNs** and **OpenCV**.
- Trained a **custom dataset** in **TensorFlow**, achieving **90%+** accuracy with smooth **live camera-based predictions**.
- Improved performance via **data augmentation** and **hyperparameter tuning**, gaining up to **+10%** accuracy.
- Implemented a **Google Colab GPU training pipeline** and documented the workflow with a **live demo integration**.

Eye Disease Detection

- Developed a **deep learning model** for automated detection of retinal diseases (**DME, AMD**) using **OCT images**.
- Applied **transfer learning** with a **ResNet-based architecture** to enhance accuracy and reliability.
- Validated the model using **confusion matrix analysis**.
- Enabled **fast and accurate diagnosis**, supporting potential **medical screening applications**.

EDUCATION

Muthayammal Engineering College
B.Tech. Artificial Intelligence & Data Science
2022-2026

Namakkal, TN
CGPA: 8.17

CODING PROFILE

LeetCode	100+ Problems Solved
GeeksforGeeks	100+ Problems Solved
HackerRank	70+ MySQL Queries Solved
LeetCode (SQL)	70+ SQL Problems Solved

INTERNSHIP & TRAINING

Data Engineer Intern <i>[ThinkinfoExpertSolutions], [Salem]</i>	[JULY 2025 - AUGUST 2025] 30 Days
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- Gained hands-on experience in data pipeline development, ETL processes, and database management using Python and MySQL
- Collaborated with cross-functional teams to optimize data workflows, improve query performance, and implement data validation techniques

Technical Workshop on Generative AI <i>[Knowledge Institute of Technology/onsite Salem]</i>	[FEB 2025]
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- Explored fundamentals of Generative AI models, prompt engineering, and practical applications of Large Language Models (LLMs)
- Developed understanding of AI-driven automation, natural language processing techniques, and real-world implementation strategies

NPTEL Distributed Systems IIT Patna	Completed: [Jun-sep 2024]
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- Gained understanding of distributed computing concepts, algorithms, and practical implementations
- Covered Hadoop, Spark, message passing, and distributed coordination

NPTEL Foundation of Cloud, IoT, Edge, ML IIT Patna	Completed: [Feb-Apr 2025]
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- Studied cloud computing, IoT architectures, edge computing, and machine learning concepts
- Learned about virtualization, real-time data processing, and ML for IoT applications

CERTIFICATIONS

Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate Oracle University	October 2025 Valid Until: October 2027
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- Demonstrated foundational knowledge in Artificial Intelligence and Oracle Cloud Infrastructure services.
- Covered AI concepts, machine learning, data management, and OCI tools for intelligent cloud solutions.