

# Kavipriya Kaliyappan

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## SUMMARY

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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

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

## PROJECTS

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### 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

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

Namakkal, TN  
CGPA: 8.17

# CODING PROFILE

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

# INTERNSHIP & TRAINING

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**Data Engineer Intern**  
*[ThinkinfoExpertSolutions], [Salem]*

[JULY 2025 - AUGUST 2025 ]  
30 Days

- 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**  
*[Knowledge Institute of Technology/onsite Salem]*

[FEB 2025]

- 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]

- 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]

- Studied cloud computing, IoT architectures, edge computing, and machine learning concepts
- Learned about virtualization, real-time data processing, and ML for IoT applications

# CERTIFICATIONS

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**Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate**  
Oracle University

October 2025  
Valid Until: October 2027

- 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.