

# DEEPAK D

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## PROFESSIONAL SUMMARY

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A passionate AI/ML engineer with a strong background in deep learning, computer vision, and NLP. Skilled in Python, TensorFlow, PyTorch, and React Native. Experienced in developing intelligent mobile solutions and real-time monitoring systems. Looking for a challenging role to develop cutting-edge AI solutions for real-world applications.

## TECHNICAL SKILLS

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**Programming Languages:** Python, TypeScript, C++, Java, SQL

**Deep Learning & AI:** TensorFlow, PyTorch, Keras, YOLOv8, Scikit-learn

**Mobile & Cloud:** React Native, Expo, Google Firebase (Firestore), TensorFlow Lite

**Libraries & Tools:** NumPy, Pandas, OpenCV, Dlib, Git, Streamlit

## PROFESSIONAL EXPERIENCE

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**GoGoX** — Intern

Sept 2025 – Present

- Selected for an internship position to contribute to real-world projects and gain hands-on experience in the field of study.
- Collaborating with the technical team to develop valuable AI/ML-driven contributions to the organization.

**Data Analyst Intern** — Cognifyz Technologies / Zidio Development

2024

- Developed a model for Android malware detection using AutoML techniques.
- Implemented black hole attack detection with AODV approach and machine learning.

## EDUCATION

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**VELS University**, Pallavaram, Chennai

*B.Tech in Computer Science & Engineering (AI and ML)*, CGPA: 8.09 (Aug 2022 – May 2026)

**BHAGAVAN HR. SEC. SCHOOL**, Tiruvannamalai

Higher Secondary Certificate (12th Grade), 76.33% (May 2022)

**BHAGAVAN HR. SEC. SCHOOL**, Tiruvannamalai

Secondary School Leaving Certificate (10th Grade), 95.8% (March 2020)

## CERTIFICATIONS

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Best Paper Award – NCRTET '25 (Gojan School of Business and Technology)

Introduction to Microsoft Excel – Coursera | Cloud Computing – NPTEL

Certified Developers Bootcamp – ZOHO (ZOBOT Platform)

Internship in Artificial Intelligence and Data Analytics – AICTE

# PROJECTS

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## **AutoML Lite: Intelligent ML Model Selection for Mobile**

- Developed a cross-platform mobile application using **React Native, Expo (TypeScript), and Firebase**.
- Engineered a custom **Meta-Rule Engine** that evaluates datasets against 20+ algorithms to recommend optimal models.
- Integrated **Firestore** for dynamic algorithm updates and **React Native Gifted Charts** for visual loss curves.
- Features offline-first default rules and integrated PDF generation for exporting analysis summaries.

## **Smart Helmet Drowsiness & Emergency Alert System** *(Ongoing)*

- Developed a wearable safety system using ESP32 and sensors to automatically detect drowsiness and send GPS location.

## **Real-Time Monitoring of Driver Drowsiness and Distraction (Mod-ds)**

- Developed a vision-based driver monitoring system using Dlib and OpenCV to analyze facial landmarks (EAR/MAR).
- Integrated CNN-based gender classification for demographic insights and live auditory alerts.

## **Data Augmentation Based Waste Classification using CNN**

- Built a CNN classifier with 96.78% accuracy for organic vs. recyclable waste classification.
- Optimized model for edge deployment via **TensorFlow Lite** and integrated with a Streamlit interface.