

ANAND N

Python Developer | AI/ML Enthusiast | Computer Science Graduate

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Professional Summary

Computer Science Engineering graduate with a strong foundation in Python, Artificial Intelligence, Machine Learning, and IoT. Developed academic projects involving CNN-based image classification, real-time IoT data processing, and cloud integration using Python and Firebase. Experienced in image preprocessing, model development, sensor data processing, and Python-based application development. Passionate about solving real-world problems using AI/ML and eager to contribute as a Python Developer or AI/ML Engineer.

Technical Skills

- **Programming:** Python, SQL, JavaScript
- **AI & Machine Learning:** Machine Learning, Deep Learning, CNN, Image Classification, Model Evaluation
- **Computer Vision:** OpenCV, Image Preprocessing, Image Normalization
- **Frameworks & Libraries:** TensorFlow, Keras, Django
- **Web Technologies:** HTML, CSS, React
- **Databases:** MySQL, Firebase Realtime Database
- **Data & APIs:** JSON, REST APIs
- **Version Control:** Git, GitHub
- **IoT:** ESP32, MPU6050, MAX30100, I2C Communication, Sensor Data Processing
- **Core Concepts:** Data Structures, OOP, DBMS, Operating Systems, Computer Networks, SDLC

Projects

AI-Driven Clinical Support for Hematology Screening

Technologies: Python, TensorFlow, Keras, CNN, OpenCV [Source Code](#)

- Developed a CNN-based deep learning model for automated classification of peripheral blood smear images.
- Performed image preprocessing, normalization, and dataset preparation for model training.
- Implemented a Python-based prediction pipeline for automated blood smear analysis.
- Classified blood smear images into four categories: Normal, Anemia, Thalassemia, and Sickle Cell Disease.
- Evaluated and optimized model performance through iterative experimentation and testing.

Early Identification of Learning Disabilities Using AI and IoT

Technologies: Python, ESP32, Firebase, OpenCV, MPU6050, MAX30100 [Source Code](#)

- Designed and developed the Python backend for processing real-time physiological and behavioral data.
- Integrated ESP32 with MPU6050 and MAX30100 sensors using I2C communication.
- Built a real-time data pipeline to securely transmit sensor data to Firebase Realtime Database.
- Assisted in preprocessing multimodal sensor data for AI-based learning disability detection.
- Collaborated with a four-member team on hardware integration, debugging, testing, and deployment.

Education

Bachelor of Technology (B.Tech) in Computer Science Engineering

2022 – 2026

College of Engineering, Muttathara

CGPA: 6.84

- Relevant Coursework: Data Structures, DBMS, Operating Systems, Computer Networks, Software Testing, Data Mining.

Higher Secondary Education (Class XII)

2018 – 2020

Sree Narayana Guru Higher Secondary School

CGPA: 8.8

Secondary Education (Class X)

2017 – 2018

Sree Narayana Public School

CGPA: 8.2

Certifications

- Python for Data Science — NPTEL
- Python Bootcamp — Udemy
- Basic to Advanced SQL — Skill Nation

Professional Skills

Problem Solving • Communication • Team Collaboration • Quick Learner • Adaptability • Time Management • Critical Thinking

Extracurricular Activities

Football • Fitness • Technology Exploration • Continuous Learning