

# S Prajwall Narayana

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## EXPERIENCE

### Ernst & Young India

Associate Consultant Intern

Bengaluru, IN

Aug 2024 - Sep 2024

Gained expertise in Enterprise Security Architecture and Cybersecurity through work on the IFTAS Cloud project.

Applied the SABSA Framework for risk-driven design, cloud security, Identity and Access Management (IAM), and regulatory compliance in financial systems.

### RVCE Centre of Excellence

Student Intern

Bengaluru, IN

Oct 2024 - Dec 2024

Developed a prototype model for AI-generated content and deepfake detection using CNN-based architectures, fine-tuned with hyper-parameter optimisation in TensorFlow and PyTorch. Achieved 92.3% accuracy, 90.7% precision, and 91.5% recall on benchmark deepfake datasets (FaceForensics++ and DFDC).

## PROJECTS

### Arogya-Sathi: AI-Powered Multilingual Healthcare Platform - <https://github.com/Developer1010x/Arogya-Sathi.git>

Developed and led an AI-driven healthcare system using Streamlit, LangChain, LLaMA 3.2, YOLOv8, and OCR, featuring symptom checker, X-ray analyser, report summariser, and wellness chatbot. Enabled 12+ language support via Ollama LLMs and real-time hospital/pharmacy locator using OpenStreetMap. Achieved 93% accuracy in symptom detection; optimised for 8–16GB RAM with modular, low-resource deployment.

### LLM\_Terminal- Langchain, Streamlit, Llama3.2B [https://github.com/Developer1010x/LLM\\_Terminal.git](https://github.com/Developer1010x/LLM_Terminal.git)

Developed a terminal-based conversational AI tool integrating Large Language Models (LLMs) like GPT to enable seamless, offline CLI assistance. Lightweight and efficient, useful for quick AI interactions without web overhead.

### KnotesCentral - TypeScript, ReactJS, HTML, CSS <https://knotescentral.vercel.app>

Built Knotes central is a centralised academic resource platform for RVCE students, offering curated notes, question papers, lab manuals, and more. Designed to eliminate the need for scattered resources, This uses Typescript React JS and HTML CSS based on the versions we upgraded it

## PUBLICATIONS

### Web-Server Controlled Rover with Robotic Arm and Object Detection | Nov 2024 IEEE Xplore

Designed a modular, LAN-controlled rover system using ESP32s with YOLOv3 object detection, 4-DOF arm, real-time camera streaming, and web UI; published in IEEE Xplore for low-cost automation and robotics education.

<https://ieeexplore.ieee.org/document/10816816>

### An Empirical Study of ResNet50 Hyperparameters Tuning for Plant Disease Classification| Nov 2024 IEEE Xplore

Novelty of this work lies in the combination of multiple datasets and the establishment of standardised hyperparameters, leading to a significant increase in matching accuracy. Additionally, the approach enhances model generalisability across varied real-world scenarios.

<https://ieeexplore.ieee.org/document/10816835>

## CERTIFICATIONS

### Introduction to Graph Algorithms | 2024

NPTEL

### Data Science for Engineers | 2023

NPTEL

## SKILLS

Programming languages:	Python, C++, Jupyter notebook, C, Swift, SQL, JavaScript
Python Libraries:	TensorFlow, Pytorch, OpenCV, Pandas, Streamlit, Django
Tools/OS:	Git, <a href="https://github.com">Github</a> , Windows, Mac, Linux

## EDUCATION

### RV College of Engineering

BE Computer Science and Engineering

Bengaluru, IN

Dec 2021 - Aug 2025

### NAFL North

12th PCMC

Bengaluru, IN

May 2019 - Jun 2021

## SOCIETIES

NSS RV College of Engineering | Core Team, Media and Content Head. | Nov 2022 - Aug 2024

Bengaluru, IN