

POLISETTY LOKESH

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[in](#) LinkedIn - [G](#) Github - [</>](#) LeetCode

SUMMARY

Experienced programmer with two years of dedicated practice, demonstrating a keen aptitude for learning and mastering various programming skills. Recognized for adept problem-solving abilities and a passion for tackling complex challenges that others may find daunting. Proactively aware of personal potential and committed to continuous growth in the field of programming. .

TECHNICAL SKILLS

Languages: Java, Python, SQL , C++

Backend: FastAPI, REST APIs

Databases: MongoDB, MySQL, PostgreSQL

Frontend: HTML, CSS ,java Script

Core CS: OOP, Networking, OS

Tools & DevOps: Git, GitHub,AWS (EC2, S3 , SNS, RDS ,SQS ,VPC, Dynamo DB),Postman

PROFESSIONAL EXPERIENCE

CropGuard: AI-Powered Leaf Disease Identification and Prevention System - Research Intern [G-Drive](#)

- Built a custom ResNet-9 CNN on the PlantVillage dataset (87,000+ images, 38 disease classes, 14 crop species), achieving 99.2% validation accuracy and 100% test accuracy
- Implemented full pipeline: data augmentation (rotation, flip, scaling), normalization, 80/20 stratified split, and GPU-accelerated training with Adam optimizer and one-cycle LR scheduling

PROJECTS

Resume Builder & Parser Platform

[GitHub](#)

- Built a full-stack Flask-based Resume Builder & Parser platform with secure user authentication, enabling users to create, edit, and manage professional resumes end-to-end.
- Integrated Google Generative AI API to parse uploaded PDF resumes and extract structured candidate data, improving profile creation speed and accuracy.
- Implemented LaTeX-powered PDF generation with real-time preview to produce high-quality, ATS-friendly resumes with production-grade formatting.

Skin Disease Classification

[GitHub](#)

- Trained a 6-class skin disease classifier on 26,632 images using Efficient Net-BO, achieving 88.61% test accuracy and 0.886 weighted F1-score
- Handled 3.91x class imbalance via inverse-frequency weighted CrossEntropy Loss; applied stratified 70/15/15 split with augmentation and ImageNet normalization
- Used Adam (lr=1e-4) with ReduceLROnPlateau scheduler and custom EarlyStopping (patience=5); best val loss 0.4466 at epoch 7/20

Smart Tutor APP

[GitHub](#)

- Developed an AI-powered tutoring platform using Flask, PostgreSQL, Bootstrap, and JavaScript, enabling end-to-end workflows for authentication, tutor discovery, and session booking across student and tutor roles.
- Integrated Google Gemini AI to deliver intelligent learning support, including step-by-step explanations, adaptive practice problem generation, quiz creation, and automated study notes for multiple academic subjects.
- Designed and implemented a secure, scalable full-stack architecture with role-based dashboards, conversation-history persistence, responsive UI, and backend safeguards such as password hashing, input sanitization, and API key protection.

EDUCATION

2023 – 2027

Bachelor's in Computer Science, SRM University AP

GPA: 8.39/10

CERTIFICATIONS

- Oracle certified professional Java SE 17 Developer
- AWS Certified Cloud Practitioner