

# Immanneni Sai Kowshik

🌐 I.sai Kowshik

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## 🌐 PORTFOLIO

### EDUCATION

- **Vasavi College of Engineering, Hyderabad** 2022–2026  
*B.E. in Computer Science and Engineering* CGPA: 8.97

### EXPERIENCE

- **AI Engineer Intern at Turtl** May 2025 – July 2025  
*FastAPI, ResNet, OCR, Docker, Pydantic, Python*
  - Built an AI-powered microservice to validate college ID cards by combining ResNet-based image classification with OCR-driven rule logic, achieving over **95% accuracy** across diverse image conditions.
  - Engineered and deployed the system using **FastAPI and Docker** for robust offline inference; designed RESTful APIs and validation pipelines with Pydantic, rigorously tested on **50+ real and fake scenarios**.

### PROJECTS

- **AI-Powered College ID Card Validator** [GitHub](#) June 2024  
*React, Python, ResNet, OpenCV, OCR, FastAPI, Docker, Pydantic*
  - Developed an AI-based offline system for ID card verification using ResNet image classification, OCR text extraction, and rule-based validation.
  - Achieved **95%+ accuracy** across 50+ test cases; reduced false positives by **40%** through image-text cross-validation.
  - Containerized with Docker and deployed FastAPI for cross-platform support, improving inference by **30%**.
- **Patient Pulse – Web-Based Doctor Appointment Platform** [GitHub](#) Aug 2024  
*React, MongoDB, Node.js, Bootstrap, JWT, Kubernetes*
  - Developed “The Patient Pulse,” a secure full-stack healthcare platform for booking medical appointments, with JWT authentication and automated email notifications, improving operational efficiency by **40%**.
  - Deployed on AWS EC2 with MongoDB Atlas, achieving **99.9%** uptime, secure data storage, and low-latency access.
  - Scaled services using Kubernetes, enhancing system fault tolerance and horizontal scalability by **60%**.

### TECHNICAL SKILLS

- **Languages:** C, C++, Java, Python, JavaScript, PHP
- **Web Technologies:** HTML, CSS, Node.js, React, Bootstrap
- **Databases:** MySQL, MongoDB, Oracle, SQL
- **Cloud & DevOps:** AWS (EC2, S3, RDS, Lambda, etc.), Docker, Kubernetes, Jenkins, Git, CI/CD
- **APIs & Backend:** RESTful APIs, Server-side Logic, API Integration
- **AI & ML:** Machine Learning, LangChain, LLMs, RAG, Agentic AI
- **Core Subjects:** DSA, DBMS, OS, OOPS, CN, AI

### SOFT SKILLS

- **Soft Skills:** Collaboration & Teamwork, Problem Solving, Communication, Adaptability, Time Management, Critical Thinking

### ACHIEVEMENTS & CERTIFICATIONS

- **DSA Portfolio**: Solved **500+ DSA problems** (Leetcode, GFG, CodeChef)
- **Secured All India Rank 353** in CodeQuezt Contest (DSA) conducted by Coding Ninjas
- **Designing Highly Scalable SQL Databases – LinkedIn Learning**: Completed a comprehensive course on designing scalable and efficient SQL database systems, covering advanced topics like indexing strategies, normalization, query optimization, and high availability.
- **Cisco Python Essentials 1** and **Cisco Python Essentials 2**: Completed Python Essentials 1 and 2 under Cisco Networking Academy, covering Python fundamentals, data structures, OOP, and scripting, verified by Cisco and Python Institute.