Immanneni Sai Kowshik

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EDUCATION

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

EXPERIENCE

- **AI Engineer Intern at Turtil** ⌐ — 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
  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 time by **30%**.

- **Patient Pulse – Web-Based Doctor Appointment Platform** GitHub ⌐ — Aug 2024
  HTML, CSS, EJS, JavaScript, 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 (basic), Python, JavaScript, PHP
- **Databases**: Oracle, SQL, MongoDB, MySQL
- **Cloud Services**: AWS (EC2, S3, RDS, ALB, Route53, Lambda)
- **DevOps Tools**: Docker, Kubernetes, Jenkins, Git
- **Technologies**: HTML, CSS, Node.js, React, Bootstrap
- **Generative AI**: Agentic AI Systems, Retrieval-Augmented Generation, LangChain, Large Language Models
- **Academic Coursework**: Data Structures, Algorithms, DBMS, Operating Systems, OOPS, Machine Learning, Computer Networks, Artificial Intelligence
- **Libraries**: NumPy, Pandas, Matplotlib
- **Backend and Integration Skills**: Database Integration, API Development, Server-side Logic, RESTful APIs

SOFT SKILLS

- **Soft Skills**: Collaboration & Teamwork, Problem Solving, Communication, 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.