

# SATWIK NARWA

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## SUMMARY

AI & Full-Stack Developer with proven hands-on experience in building and deploying scalable web applications and Machine Learning solutions. Proficient in Python, Django, React, and REST API Development. Successfully delivered production-ready projects like the CoverGenie AI-Powered Cover Letter Generator and an AI Voice Chatbot. Passionate about leveraging AI to solve real-world problems and committed to continuous learning.

## EDUCATION

**Institute of Aeronautical Engineering, Hyderabad**

**Nov 2021 – Jun 2025**

*B.Tech in Computer Science and Engineering (AI & ML) — CGPA: 7.0/10*

*Hyderabad, Telangana*

## EXPERIENCE

**Aagama Consulting Services**

**Apr 2025 – Present**

*Full-Stack Developer Intern*

*Hyderabad, Telangana*

- Engineered and enhanced **RESTful APIs** using **Django, Flask, and FastAPI**, reducing average response time by **30%**.
- Designed and validated API endpoints through **Postman**, ensuring seamless integration between backend and frontend layers.
- Streamlined **MongoDB** queries and CRUD workflows, achieving faster data retrieval and improved scalability.
- Implemented a responsive admission portal using **React and EJS**, improving user engagement and navigation speed.
- Automated **document generation** pipelines using EJS templates, increasing workflow efficiency and reducing manual tasks.

## TECHNICAL SKILLS

**Programming Languages:** Python, JavaScript

**Frontend:** React, HTML, CSS, Tailwind CSS

**Backend:** Django, Flask, FastAPI

**Databases:** MySQL, MongoDB

**Libraries & Tools:** NumPy, Pandas, TensorFlow, OpenCV, Postman, Git, GitHub, Docker, MySQL Server

**Core Expertise:** REST API Design, JWT Authentication, Machine Learning, AI Integration, Data Visualization, Cloud Deployment

## PROJECTS

**CoverGenie – AI-Powered Cover Letter Generator** | *Django, React, Tailwind CSS, OpenAI API, REST API* | [GitHub Repo](#)

- Built a full-stack **AI application** that crafts personalized cover letters using OpenAI's language model.
- Integrated **JWT authentication** and robust REST endpoints to manage user input and API security.
- Enhanced UI responsiveness with **React + Tailwind CSS**, ensuring a seamless multi-device experience.
- Deployed a scalable production-ready build with future monetization features.

**Real-Time Face Emotion Recognition** | *Python, CNN, OpenCV, Pandas* | [GitHub Repo](#)

- Trained a deep **CNN model** on the FER-2013 dataset to classify emotions with **75%+ accuracy**.
- Integrated live webcam detection using **OpenCV** for real-time emotion recognition.
- Refined inference flow for low-latency performance across standard computing environments.

**AI Voice Chatbot with NLP and Speech Recognition** | *Python, Django, SpeechRecognition, Groq API, NLP* | [GitHub Repo](#)

- Architected a voice-enabled **AI chatbot** capable of understanding both text and speech inputs.
- Integrated the **SpeechRecognition** engine for real-time audio-to-text conversion within the web interface.
- Leveraged **Groq's LLM API** for fast, context-aware NLP responses in conversational flow.
- Implemented modular REST architecture for processing user queries, context management, and streaming replies.

## CERTIFICATIONS

**Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate** (Oracle University)

**Microsoft Certified: Data Analyst Associate** (Power BI, Udemy)

**Python: Learning Python** (LinkedIn Learning)

**Intel® Unnati AI Course Workshop** (Intel® Unnati Lab)