

RAVULA TANISHQ

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PROFESSIONAL PROFILE

Reliable and self-motivated Software Developer at Deloitte with expertise in Python, .NET, and Generative AI. Proven track record of building scalable AI solutions and document processing systems. Quick learner seeking to contribute advanced technical skills in an innovative organization.

TECHNICAL SKILLS

Python • GenAI • LLM (OpenAI, Gemini) • OCR API • Abby Flexicapture • Flask • MongoDB • SQL • MySQL • .NET • C# • Angular • Java • Data Structures • Web Development • PHP • AIML • DBMS • HTML • CSS • C++ • Javascript • Deep Learning • NLP

WORK EXPERIENCE

Software Developer

September 2024 - Present

Deloitte

- Architect and maintain enterprise-grade applications utilizing C#, SQL, .NET, and Angular Typescript for daily mission-critical operations.
- Engineered an automated K-1 form (1065, 1041, 1120s) processing application, leveraging OCR APIs to extract high-fidelity data from PDF sources into a web-based UI.
- Streamlined data migration workflows by exporting processed OCR data into complex Excel templates for financial reporting.
- Demonstrated technical excellence in rapid bug resolution and codebase optimization within a high-stakes corporate environment.

PROJECTS

EcoAI Assistant: Intelligent Waste Management & Recycling Recommender

[<https://tanishqravulawastemanagementrecommendersystem-2j3v6dupjzpt9lc3n.streamlit.app/>]

Tech Stack: Python, Generative AI, LLM, Deep Learning, Folium, YouTube API, Google Custom Search API, Streamlit

- Developed 'EcoAI Assistant', an intelligent waste management platform utilizing deep learning models to classify waste into 12 distinct categories from images.
- Integrated Google Gemini AI to provide users with creative DIY reuse suggestions and comprehensive environmental impact reports.
- Implemented real-time geospatial mapping using the Overpass API and Folium to locate nearby recycling facilities.
- Enhanced accessibility through text-to-speech features and automated YouTube tutorial fetching via API.

AI Based Generative Design Of Hydropower Plants

[<https://tanishqravulahydropowerplants-n8acaufzqyq42uibpegcwr.streamlit.app/>]

Tech Stack: Python, Machine Learning, OpenAI, Gemini, PyTorch, Keras, OpenStreetMap, PyPDF2

- Built a sophisticated toolkit for engineers using Keras (LSTM), Scikit-learn (Random Forest), and PyTorch-based GANs to predict optimal plant specifications.
- Deployed 'Hydro Bot' powered by OpenAI GPT/DALL-E 3 and Google Gemini for automated construction guide generation.
- Integrated OpenStreetMap for geospatial site mapping and automated PDF summary generation for technical planning.

AI Mart: Your Work Partner [<https://tanishqravulaultraaiagentbot.onrender.com/>]

Tech Stack: Python, AI, NLP, LLM, Streamlit, HTML, CSS

- Engineered a high-performance AI agent capable of multi-modal document processing including PDF, Excel, CSV, PPTX, and Docx.
- Developed URL scraping capabilities to provide context-aware responses from live websites and YouTube videos.
- Optimized LLM inference to provide faster and more accurate text generation compared to standard GPT implementations.

Revolutionizing Healthcare: Home-Based Healthcare [<https://tanishqravula.github.io/tanishq/>]

Tech Stack: Python, MongoDB, HTML, CSS, JavaScript, Machine Learning, Google Firebase, PHP, MySQL

- Created an integrated healthcare platform featuring disease prediction models and automated doctor-patient video communication.
- Developed real-time notification systems for blood bank coordination and yoga guidance modules.
- Utilized a robust stack including MongoDB and Google Firebase for secure medical data storage and synchronization.

AffordableFashionForYou.com - Ecommerce Website [<https://amazing-lollipop-eodd4d.netlify.app/>]

Tech Stack: MongoDB, ReactJS, NodeJS, HTML, CSS, JavaScript

- Designed and deployed a full-stack e-commerce platform with a focus on responsive UI and seamless user experience.
- Implemented secure database management for inventory and user sessions using MongoDB.

Whatsapp Bot and Telegram Bot - Your daily partner

Tech Stack: Python, AI, Flask, NLP, LLM

- Developed innovative automation bots for WhatsApp and Telegram to handle daily essentials such as image generation and maps navigation.
- Leveraged Flask and LLMs to create an efficient conversational interface for real-time video fetching and news updates.

EDUCATION

Vasavi College of Engineering

2024

B.E in Computer Science and Engineering | CGPA: 9.2

Sri Chaitanya Techno School

2020

CBSE XII | Scored-90%

Sri Chaitanya Techno School

2018

CBSE X | Scored-90%

CERTIFICATIONS

- Introduction to Machine Learning (NPTEL)
- Introduction to Java (Coding Ninjas)
- Introduction to Python (Coding Ninjas)
- Introduction to Cyber Security (CISCO)
- Amazon ML Summer School Program-2023 (Amazon)

ACHIEVEMENTS

- Awarded Applause Award for my exceptional performance in Quarter 2(Deloitte 2025)
- Winner Of Devpost Student Hacks AI Hackathon
- SIH-2023 Grand Finalist (Smart India Hackathon)
- Awarded 1st prize in project expo in Methodist College of Engineering(Hackathon)
- Awarded 1st prize in Code Sprint (College Fest)
- Won national level hackathon Techsavishkar (2023)
 Awarded 1st best theme-based project in college (2023)
- Awarded Top 5% in introduction to Machine Learning (NPTEL)