BTech
Mechanical Engineering
Indian Institute Of Technology, Tirupati

ME22B007@iittp.ac.in Portfolio

EXPERIENCE

•AxoryAI
Software Developer Intern
Remote

- Developed and deployed the backend infrastructure for a deepfake detection system, integrating a machine learning model using FastAPI and Python.
- Designed and implemented RESTful APIs to serve the ML model, ensuring scalability and secure access via tokenbased authentication.
- Built a Python SDK to allow seamless client-side integration, enabling third-party developers to easily utilize the deepfake detection service.
- Implemented Supabase with SQL queries to manage user authentication, store processing results, and log usage analytics.
- Dockerized the application for smooth deployment and scalability; deployed services on AWS EC2, optimizing performance on GPU-enabled instances.

•Alkeynes Global Solutions INDIA LLP

May 2024 - July 2024

 $Front end\ Developer\ Intern$

New Delhi(hybrid)

- Gained exposure to UI/UX design workflows using Figma while working on internal prototypes and client concepts.
- Contributed to frontend adjustments for a client website built with PHP, collaborating with senior developers to implement new features.

• Flaredge
Developer

August 2024 - Present
Tirupati, India

- a personal portfolio and freelancing platform to showcase past web development work and attract clients.
- Designed and developed responsive websites for clients using React, Firebase, FastAPI, and other modern web technologies.
- Collaborated directly with clients to understand requirements, deliver custom solutions, and provide ongoing technical support.
- Managed deployment, domain setup, and performance optimization using tools like Netlify, Firebase Hosting, and AWS EC2.

Layer Build Private Limited

Dec. 2023 - Feb. 2024

 $Software\ Developer$

IIT tirupati

- Developed a GUI-based application using Qt Designer and C++ to automate road-test report generation by inputting various highway material test data.
- Integrated the wkhtmltopdf library to export data as professional-grade PDFs, streamlining the report generation process and minimizing manual errors.

PROJECTS

•Accent Recognition Using CNN & MFCCs

 $July\ 2025$

Built a deep learning system to detect the speaker's native accent (Arabic, Mandarin, English) from voice audio

GitHub

- Tools & technologies used: Python, TensorFlow (Keras), Librosa, MFCC, Matplotlib
- Developed a modular pipeline for audio preprocessing, MFCC feature extraction, model training, and evaluation.
- Trained a CNN to classify speaker accents with high accuracy using carefully filtered audio samples.
- Designed data preprocessing feature extraction workflows (MFCC) and visualized trends using Matplotlib.

Data Warehousing & ETL Pipeline Project

August 2025

 $Personal\ project\ implementing\ a\ three-layer\ ETL\ architecture\ for\ CRM\ and\ ERP\ datasets.$

Github

- Tools & technologies used: SQL Server, T-SQL, Data Warehousing Concepts
- Designed and implemented a **three-layer data warehousing architecture** (staging, integration, presentation) for structured CRM and ERP datasets.
- Developed SQL scripts for data cleaning, transformation, and surrogate key generation in the integration layer.
- Created dimension and fact views in the presentation layer to enable analytical queries for customers, products, and sales.
- Applied **ETL** best practices including data validation, deduplication, and referential integrity checks.

•Tirutsava Website

November 2024

Developed for my college's annual techno-cultural fest, Tirutsava

Link

- Tools & technologies used: Next.js, FastAPI, Razorpay, Tailwind CSS, Docker
- Played a key role in both frontend and backend development of the website, ensuring a seamless and user-friendly experience.
- Designed and implemented event registration system allowing users to sign up for multiple events efficiently and integrated Razorpay for secure and smooth payment processing, enabling real-time transaction tracking.
- Collaborated with a multidisciplinary team to ensure timely delivery and alignment with event requirements.

•Mentor Data Web Crawler

March 2025

Developed web crawler to extract mentor information using language models.

Github

- Tools & technologies used: Python, Crawl4AI, LLM (GROQ), CSV
- Built a highly efficient crawler leveraging asynchronous programming with Crawl4AI to scrape mentor data from websites.
- Used LLM-based parsing to structure unstructured data and exported results to CSV for data cleaning, transformation and analysis.

TECHNICAL SKILLS

- **Programming:** C/C++, Python, JavaScript
- Data Analytics: SQL, MongoDB, Basic Machine Learning, Pandas, NumPy, Data Visualization (Matplotlib, Seaborn), LangChain.
- Web Technologies: React, Nodejs, Express, MongoDB, Flask, FastApis, Firebase, Bootstrap, CI/CD, DSA.
- Tools Platforms: Git, Docker, AWS, Heroku, Firebase

Positions of Responsibility

- •Core Member, Web Development Team / Tirutsava Collaborated with a team to design and develop the official event website enhancing user engagement and providing essential information. 2024
- •Co-coordinator, NavGati, Automobile Club: Head of Event Management Team

Present

•Core member, Creative cell committee/Tirutsava: Collaborated with a team to decorate our college. 2023

EDUCATION

Degree/Certificate	${\bf Institute/Board}$	CGPA/Percentage	Year
B.Tech.	Indian Institute of Technology, Tirupati	7.14	2022-2026
Senior Secondary	Sardar Patel Inter College Kanpur	90.0%	2021
Secondary	Sardar Patel Inter College Kanpur	89.5%	2019