MEDISETTI JITENDRA DURGA PRASAD

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PROFILE

Second-year B.Tech Computer Science & Engineering (AI & ML) student with hands-on experience in Python, SQL, data analytics and machine learning, from data cleaning and analysis to model building and web deployment. Built five projects, four of them deployed live, including a flood-safety mapping tool, a university-data crawler, a satellite fire-tracking dashboard and an AI resume analyzer. 2nd place at the Codexa hackathon, among nine hackathons joined. Seeking an international internship in software engineering, data or machine learning.

EDUCATION

MNR University, Hyderabad, India — 2025 – 2029 (Expected)
B.Tech in Computer Science & Engineering (AI & ML) — CGPA: 8.5 (Year 1)

Sri Akshara Junior College, Telangana, India — 2023 – 2025
Intermediate (MPC) — 91.4%

ZPHS Nandigama, Telangana, India — 2023
Secondary School Certificate (SSC) — GPA: 8.8/10

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, TypeScript, Java (Fundamentals), HTML/CSS
Data Analytics: Pandas, NumPy, Excel, Data Cleaning, Exploratory Data Analysis, Statistics, Matplotlib, Power BI, Tableau
Machine Learning: Scikit-learn, Regression, Classification, Random Forest, Model Evaluation, OpenCV, YOLO; full lifecycle from data preparation to deployment
Web & Backend: FastAPI, Next.js, React, Tailwind CSS, REST APIs, SQLAlchemy, PostgreSQL, Pydantic, web scraping (BeautifulSoup, pdfplumber)
Tools & Cloud: Git, GitHub, Docker, Vercel, Render, VS Code, MapLibre GL JS, OpenStreetMap
Databases: PostgreSQL, SQL, DBMS fundamentals
Problem Solving: 50+ problems solved on LeetCode

EXPERIENCE

Data Analytics Intern — Feb 26 – Apr 2, 2026
NoviTech R&D Private Limited — *Online*
- Completed a 30-day data analytics masterclass covering NumPy, Pandas, Matplotlib and Tableau.
- Practised data cleaning, exploratory data analysis and visualization on hands-on datasets.

Python Intern — Feb 2026 – Apr 2026
Pantech Solutions (Pantech Prolabs India Pvt. Ltd.) — *Online*
- Completed the Python Bootcamp internship (certificate issued 3 Apr 2026).
- Designed and built a Snake Game in Python as the final project.

Machine Learning Intern (Virtual) — Jun 1 – Jun 30, 2026
CodSoft — *Remote*
- Selected for a one-month machine learning virtual internship focused on learning and hands-on tasks.

PROJECTS

ResuMatch – AI Resume Analyzer | *Next.js 14, TypeScript, Tailwind CSS, Vercel* — Nov 2026
- Built an ATS-style resume analyzer that scores a resume 0–100 across five areas and matches skills against 25+ job roles using a 1,500+ skill taxonomy and cosine similarity. Live | GitHub
- Added job-description gap matching and STAR-format bullet rewrites; PDF and DOCX files are parsed in the browser.
- Deployed on Vercel as a responsive web app.

Find Your College – College Discovery Platform | *Python, FastAPI, Next.js, PostgreSQL, Docker* — Nov 2026
- Built a full-stack platform that crawls official university websites and PDF prospectuses to extract admissions, fees, courses and placements, linking every fact to its source page. Live | GitHub
- Crawler uses requests, BeautifulSoup (lxml) and pdfplumber, with rate limiting, retries, robots.txt and sitemap handling, SSRF protection and a priority queue for high-value pages; extracts 35–80+ facts per institution.
- Designed a 19-table PostgreSQL schema with SQLAlchemy and a FastAPI REST API with background crawl jobs and live status polling.
- Built a Next.js 14 + TypeScript + Tailwind frontend with search, compare and data-quality views; deployed on Vercel (frontend) and Render (API); used Docker.

FireWatch – Satellite Fire Dashboard | *Python, NASA FIRMS data, OpenStreetMap* Oct 2026

- Built with Team VyomTech during the 24-hour VYOM hackathon at MVSR Engineering College (Shourya '26): a live dashboard of satellite-detected thermal anomalies across India and South Asia from VIIRS and MODIS. Live | GitHub
- Filters by region and a 24-hour to 5-day window, auto-refreshes every 5–30 minutes, and shows confidence and fire radiative power on an interactive map. Deployed on Vercel.

U-RESCUE – Flood Safety Navigator | *Python, FastAPI, MapLibre GL JS, OpenStreetMap, Valhalla* Jun 2026

- Built a tool that finds nearby high ground within a 1–20 km range of a chosen or live location and draws walking routes to it. Live | GitHub
- Computes elevation and slope from local HGT terrain tiles (Hyderabad–Sangareddy region) with a weighted score (55% relative elevation, 45% inverse slope); routing through Valhalla on OpenStreetMap data.
- Interactive map built with MapLibre GL JS; backend in FastAPI; deployed on Vercel.

Oil Palm Stalk Detection | *Python, YOLOv8, OpenCV, JavaScript* Sep 2026

- Built a computer vision pipeline that detects cut stalks on harvested oil palm fruit bunches using YOLO; evaluated on a held-out test set of 13 images (154 annotations). GitHub
- Created a human-in-the-loop web interface to review detections, delete false positives, add missed stalks and save corrected labels for fine-tuning.

HACKATHONS & ACHIEVEMENTS

- **Codexa Hackathon** (Oct 2026): **2nd place** with my college team; won ₹5,000.
- **Shourya '26 – VYOM 24-Hour Hackathon**, MVSR Engineering College (Oct 16–17, 2026): built FireWatch with Team VyomTech.
- **Elite Hack 1.0**: global online hackathon with 7,500+ participants and 900+ teams.
- **CBIT Hacktoberfest Hackathon 2025**, Chaitanya Bharathi Institute of Technology (Oct 25–26, 2025).
- **HACK-A-THON 1.0**, St. Peter's Engineering College: 32-hour international-level hackathon (Dec 12–13, 2025).
- **HackWithHyderabad**, held at Microsoft Office, Hyderabad.
- **VisionNova Hackathon** (Akino Engineering): Stage 1 idea pitch round with Team Healers.
- **Code Clash, Elan & nVision 2026**, IIT Hyderabad.
- **Datathon**, Government of India.
- **LeetCode:** solved 50+ problems. Profile

LEADERSHIP

Campus Ambassador, E-Cell, IIT Bombay Jun 2026

- Selected for the Campus Ambassador Program of the Entrepreneurship Cell, IIT Bombay (remote).

CERTIFICATIONS

- **IBM (Cognitive Class):** Machine Learning with Python, ML0101EN (Oct 20, 2026)
- **Google Developer Program:** Machine Learning Crash Course – Linear Regression, Logistic Regression and Classification (May 2026)
- **Microsoft Learn:** AI-Powered Business Solutions and Agentic AI, 11 modules (Jul 9, 2026): agentic AI introduction, requirements analysis, overall strategy, designing AI agents, extensibility, orchestrating prebuilt agents and apps, ALM, testing, monitoring and tuning agents, cost-benefit evaluation, responsible AI security, governance, risk and compliance
- **Intellipaat:** SQL Certification Course (Oct 25, 2026)
- **Scaler Topics:** DBMS Course, Certificate of Excellence (Oct 25, 2026)
- **Simplilearn SkillUp:** Introduction to the Fundamentals of Databases (Oct 30, 2026)
- **Infosys Springboard:** Basics of Python (Apr 15, 2026); Introduction to Python; Software Engineering and ALM (May 2, 2026)
- **Udemy:** LangChain 101 for Beginners, OpenAI / ChatGPT / LLMOps (May 26, 2026)
- **Train with Shubham:** Agentic AI for DevOps Masterclass (May 26, 2026)
- **Reliance Foundation Skilling Academy (Skill India):** Green Mobility and Its Applications, 90 hours (Feb 2026)

WORKSHOPS & TRAINING

- **Full Stack Experts Academy (Innomatics Research Labs):** 5-day intensive workshop on Full Stack Web Development (Apr 6–10, 2026).
- **be10x:** AI Tools and ChatGPT Workshop (Apr 19, 2026).
- **NoviTech:** 30-Day Data Analytics Masterclass (Feb 26 – Apr 2, 2026).

LANGUAGES

English, Telugu, Hindi