

PALAK SONI

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. (MNC)	Rajiv Gandhi Institute of Petroleum Technology, Jais, Amethi	7.8	2023-2027
Senior Secondary	Narayana Junior College, Mallampet, Hyderabad	98.0%	2022
Secondary	Carmel Convent High School, Mancherial, Telangana	95.4%	2020

Experience

- Yapassio | Research and Development Intern (Product & Strategy)** May 2024 – Aug 2024
- Conducted large-scale research across 260+ career domains, synthesizing insights into standardized career guidance modules used for structuring counseling workflows.
 - Developed 60+ evaluation questions assessing logical reasoning, analytical aptitude, and emotional intelligence for counseling assessments.
 - Collaborated with product and strategy teams to align research findings with user-facing decision frameworks, improving guidance consistency and usability.

Projects

- Global Health Data Visualization** | Python, Flask, React, Docker, Plotly Dec 2024
- Developed interactive dashboards visualizing 10+ global disease burden metrics (DALYs) with gender-disaggregated insights across multiple regions.
 - Built scalable visualization pipelines using Flask and React, supporting real-time filtering and comparative analysis of public health indicators.
 - Presented actionable insights to support gender-inclusive health policy formulation through interactive analytics.
- KodesCruz – AI Coding Assistant** | Python, FastAPI, LangChain, React, TypeScript, Monaco Editor Dec 2024
- Built a full-stack AI-powered coding assistant supporting code explanation, generation, debugging, complexity analysis, reducing debugging time by 40%.
 - Integrated OpenAI and Azure OpenAI GPT models via LangChain enabling logic conversion, learning workflows, and intelligent error resolution across multiple languages.
 - Implemented real-time collaborative coding using WebSockets, supporting live code editing, shared execution, and multi-user presence tracking.
- PharmaDual – Agentic AI System** | React, FastAPI, Python, OpenAI GPT-4, Google Gemini, Docker Dec 2024
- Designed and deployed a production-grade multi-agent AI system to support end-to-end pharmaceutical research workflows.
 - Implemented asynchronous agent orchestration, automating data extraction, analysis, and report generation, reducing research turnaround time by 90%.
 - Enabled cross-model orchestration between OpenAI GPT-4 and Google Gemini, deploying the system using Docker, Redis, and Nginx for scalable inference.

Achievements

IEEE Data Visualization Challenge | Achieved 3rd place among 50 competing teams as part of Team TechyTwo.

NK Securities Hackathon | Ranked in the top 250 teams, achieving 98.12% model accuracy.

Aeroclub RecSys Cup 2025 | Placed in the top 75 teams achieving a public leaderboard score of 0.50608.

Oracle Data Science Professional Certification 2025 | Credential

CBSE Mathematics (Standard) | Ranked in the top 0.1% of successful candidates nationwide.

Technical Skills

Data Engineering & Databases: Apache Airflow, Docker, SQL (PostgreSQL), DBMS

Programming: Python, Java, C/C++, R, JavaScript

Libraries & Frameworks: NumPy, Pandas, Matplotlib, Seaborn, TensorFlow, Keras, OpenCV, Scikit-learn, LangChain, Streamlit, FastAPI, Flask, React

Web & AI Skills: MERN Stack, OpenAI GPT, Large Language Models (LLMs), Generative AI

Tools & Platforms: Git, Docker, Jupyter Notebook, Streamlit, VS Code, IntelliJ IDEA

Areas of Interest: Product Management, AI/ML Applications, Generative AI, Software Development

Positions of Responsibility

- Event Management Executive**, SchemCon – National Chemical Engineering Fest, RGIFT Sep 2024 – Nov 2024
- Planned and executed diverse technical and cultural events, managed logistics, and ensured smooth execution of the fest. Collaborated with teams to enhance participant engagement and expand event outreach.
- Product and Design Executive / Editorial Executive**, SnT Club / URJOTSAV, RGIFT Sep 2024 – Mar 2025
- Designed promotional materials, managed digital content, and contributed to the creative strategy for the club and fest. Ensured consistent branding, improved visibility, and worked closely with team members to deliver high-quality content.
- Hospitality Head**, URJASANGAM, RGIFT Nov 2025
- Oversaw accommodation, travel, and guest services for participants and dignitaries. Led a team to ensure a seamless hospitality experience and liaised with multiple departments for smooth operations.