

# 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, Mancherla, 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*

Aug 2025

- 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*

Nov 2025

- 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, RGIPT

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, RGIPT

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, RGIPT

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.