

KARAN PANCHAL

+91 8591069435 · panchalkaran677@gmail.com · Thane

· <https://www.linkedin.com/in/karan-panchal-> · <https://github.com/karanpanchalIII>

ACADEMICS QUALIFICATIONS:

Bachelor of Engineering(BE) in Computer

2022 – Present Thane

A.P Shah Institute of Technology– University of Mumbai. CGPA – 8.96(Sem V)

Higher Secondary School Certificate (H.S.C)

2020 – 2022 Thane

Satish Pradhan Dnyanasadhana College – Maharashtra State Board. Passed with 81.17%

Secondary School Certificate (S.S.C)

2020 Thane

Shri Rajarshi Shahu Vidyalaya – Maharashtra State Board. Passed with 92.20%

COURSEWORK / SKILLS:

Languages: Python, Java, C

AI/ML Tools: Scikit-learn, Pandas, NumPy, Matplotlib, LLMs

Data Science: Data Cleaning, Visualization, Statistical Analysis, SQL

Dev Stack: ReactJS, FastAPI, MongoDB, Git, Jupyter, Google Colab

Cloud & BI: AWS, IBM Cognos, Power BI, MS Excel

Other: ETL (Airflow)

PROJECTS:

BazaarBataye

Apr'25-May'25

AI-Powered Agriculture Intelligence Platform

- Built an AI-powered platform to predict crop prices based on user-input parameters (crop, location, days, investment).
- Used and fine-tuned Prophet model; deployed with interactive visualizations.
- Integrated LLaMA-based LLM to auto-generate human-readable forecast explanations.
- Developed a multilingual AI chatbot (Hindi, Marathi, English) for farmer support.
- Added a CNN-based crop image quality checker, aligning with real-world agri-insurance use cases.

aSkQL

Aug'24-Nov'24

AI-powered SQL query generator and explainer

- Developed an AI-powered SQL query generator and explainer that enables users to upload CSV datasets, ask natural language questions, and receive dynamically generated SQL queries with detailed explanations.
- Built a FastAPI backend integrating LLM models for SQL generation and Pandas for data handling.
- Designed a React.js frontend with a dark-themed, responsive UI, ensuring seamless user experience.
- Implemented schema detection, query optimization, and interactive explanations to enhance usability and efficiency.

INTERNSHIP:

Trainity

Aug'24-Oct'24

Data Analyst Intern

- Analyzed and processed diverse datasets across multiple projects, focusing on cleaning, handling missing values, detecting outliers, and ensuring data integrity to uncover actionable insights and trends using statistical and data modeling techniques.
- Prepared comprehensive reports and visualizations to effectively communicate findings, enabling stakeholders to
- Develop strategic, data-driven solutions aligned with project goals.

CERTIFICATIONS:

• IBM ETL pipelines with Airflow

• AWS AI-ML

• IBM Python for Data Science

• Udemy Web Developer

• IBM Data Warehouse Fundamentals

• IBM BI Dashboard Essentials

POSITION OF RESPONSIBILITIES:

- Treasurer of CSA-APSIT
- Volunteering