

KARAN PANCHAL

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OBJECTIVE

Passionate and adaptive engineering student with hands-on experience in full stack development, data analytics, and machine learning. Actively seeking opportunities to build scalable, intelligent, and data-driven solutions across roles in Full Stack Development, AI/ML, Data Analytics, and Data Engineering.

EDUCATION

Bachelor of Engineering in Computer Engineering, A.P Shah Institute of Technology 2022 – 2026
CGPA: 9.03 (up to Sem V)

H.S.C., Satish Pradhan Dnyanasadhana College, Maharashtra Board 2020 – 2022
Percentage: 81.17%

S.S.C., Shri Rajarshi Shahu Vidyalaya, Maharashtra Board 2020
Percentage: 91.20%

SKILLS

Languages	Python, Java
Frameworks	NodeJS, Express, ReactJS, FastAPI, Flask
Big Data	Apache Spark(Basic), Hadoop(Basic), Apache Airflow(Basic), Kafka(Basic)
Databases	SQL, MongoDB
Tools	Git/GitHub, Jupyter Notebook, VS Code, Power BI, Excel, IBM Cognos

INTERNSHIP

Data Analyst Intern, Trainity Aug 2024 – Oct 2024

- Analyzed and cleaned large datasets, focusing on missing values, outliers, and consistency.
- Generated actionable insights using data modeling and visualization techniques.
- Created dashboards and reports to support strategic decision-making.

PROJECTS

BazaarBataye — *AI-Powered Agriculture Intelligence Platform* Apr'25–May'25
bazaar-bataye.web.app

Built an AI platform to forecast crop prices using Prophet, enhanced with interactive visualizations and multilingual LLaMA-based chatbot. Integrated a CNN crop image quality detector to support agri-insurance use cases.

aSkQL — *AI-Powered SQL Query Generator and Explainer* Mar'25
Developed a FastAPI backend with LLM and Pandas to translate natural language to SQL. Built a responsive React UI with dark theme, schema detection, query optimization, and interactive explanations.

EchoSentinal — Python, FastAPI, WebSockets, ReactJS, ML, NLP Apr'25
Created a real-time sentiment and profanity detection app using speech recognition, LSTM, and FastAPI. Integrated with ReactJS and Chart.js for visual feedback and live WebSocket streaming.

SnapShare — ReactJS, Node.js, Express.js, AWS S3, EC2 Feb'25
Simple file-sharing platform hosted on AWS EC2. Users can upload files and share via QR codes or links. Used S3 for storage and built full stack with Node.js, Express, React.

Cricket Analysis Dashboard — Python, Pandas, Power BI Apr'25
Built an analytics solution for cricket data visualization using Pandas and Power BI. Included DAX measures, advanced visuals, and interactive filtering on player/match performance.

Analyzed CO2 and temperature data trends and predicted future changes using regression and clustering. Visualized climate patterns with Plotly and derived insights from historical data.

CERTIFICATIONS

- IBM Data Engineering Professional Certificate
- Udemy Web Developer Bootcamp

HACKATHON HIGHLIGHTS

- Participated in **HackScript**, building a functional prototype in a fast-paced team environment under tight deadlines.
- Competed in **Code Automata**, developing scalable and intelligent solutions through collaborative problem-solving.
- Secured **2nd place** at **Code the Cloud** by GDG among 100+ participants; presented the project at Cloud Community Days 2025 with a dedicated booth.

LEADERSHIP & EXTRA-CURRICULAR

- Treasurer of Computer Student Association (CSA) at APSIT
- Volunteer for tech events and workshops at college level
- Passionate about sports and painting