David Singh

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PROFESSIONAL SUMMARY

Aspiring Data Analyst with a strong foundation in Python, SQL, and data visualization tools like Tableau and Excel. Skilled in problem-solving, exploratory data analysis, and machine learning. Passionate about turning complex data into actionable insights and continuously learning to build real-world solutions.

WORK EXPERIENCE

CSRBOX (in collaboration with IBM)– Data Analyst Intern   JUNE 2024 – AUGUST 2024
- Analyzed **20 years** of **WHO data** on "water and sanitation access" across 100+ countries using Python, Pandas & Tableau.
- Developed scripts to automate data cleaning, reducing processing time by 30%.
- Identified key challenges, trends, and proposed five SDG-6 aligned interventions.

SKILLS

Programming Languages	Python,C++, Java, SQL
Data Structures & Algorithms	Arrays, Linked Lists, Trees, Graphs, Dynamic Programming, Sorting, Searching
Data Analysis & Visualization	Pandas, NumPy, Matplotlib, Seaborn, Tableau, MS Excel, EDA, Predictive Modeling
Machine Learning	Scikit-learn, TensorFlow, NLTK & Sentiment NLP Analysis, Predictive Models
Database Management	MySQL, MongoDB Atlas, PostgreSQL
Development Tools	Git, Github, Firebase, FastAPI
Soft Skills	Problem Solving, Analytical Thinking, Attention to Detail, Collaboration

PROJECTS

Flow Forge AI - Intelligent Workflow and Code Generation Platform ([Link](#))

Python, Java, FastAPI, NLTK, PostgreSQL, React

- Built an AI tool to optimize workflows, generate code snippets, and auto-create documentation from user inputs.
- Used topological sort for workflow optimization.
- Generated 1,000+ Lines of Python/Java code with 95% accuracy via NLP-based synthesis.

YouReview- AI Powered Sentiment Extractor from Youtube Comments ([Link](#))

Python, FastAPI, PostgreSQL, NLTK

- Fetches top Youtube videos and scrapes top "n" (default 10) comments of review-videos about product/service/company.
- Store those metadata in postgreSQL database, then applies NLP and ML algorithms(sentiment analysis)
- Users can select their favorite YouTubers to get "genuine reviews" on the mentioned product or service.

CampusCopilot – Student/Faculty Productivity Platform ([Link](#))

Python, React, FastAPI, MongoDB Atlas

- Built a AI chatbot assistant for students and faculties with reminders and campus info(datesheet, classes)
- Added "Bunk Attendance" feature, a smart planner to track "how many classes can a student skip?" within attendance limits.
- Integrated AI+APIs across frontend/backend with real-time data syncing.

EDUCATION

Mangalmay Institute of Engineering & Technology   Greater Noida, Uttar Pradesh
B.Tech. CSE (Data Science Specialization) | 7.2 (SGPA)   **SEP 2022 – Present**

TECHNICAL ACHIEVEMENTS

- **1st** Position, SIH-2024 Internal Hackathon – DoJ Chatbot
- **11th** Position out of **141 teams** – IDEATHON at ITS Engineering College, selected for mentorship.
- Cleared 2nd Round in **HackIndia 2025 Hackathon** at Lloyd Institute of Engineering and Technology.
- **Backbone Member of** "**Bit by Bit**" **community,** an open source community with 50+ members.