Shayan Singha

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PROFESSIONAL SUMMARY

Computer Science Engineering undergraduate skilled in **C/C++**, **Python**, **SQL** and **Tableau**. Strong **problem-solver** with experience in **algorithm design**, **machine learning, data analysis**, and building **scalable systems**. Combines **low-level programming** with **data-driven solutions** for optimal performance.

EDUCATION

VIT Bhopal University	Bhopal, Madhya Pradesh
Bachelor of Technology in Computer Science (AI ML)	*Sep 2022 –*
Kendriya Vidyalaya Maligaon	Guwahati, Assam
XII(Senior Secondary)	*Aug 2020 – July 2022*
South Point School	Guwahati, Assam
X(Secondary)	*March 2010 – May 2020*

EXPERIENCE

Data Analyst Intern — Nov 2024 – Jan 2025
Unified Mentor — *Remote*

- Built ML models to predict employee turnover with **85% accuracy**, improving HR strategies.
- Developed **10+ data visualizations** using **SQL** and **Python (NumPy, pandas)**, reducing reporting time by **30%**.
- Created **Tableau dashboards** to identify trends, improving stakeholder understanding by **40%**
- Presented actionable insights to stakeholders, leading to a **20% increase** in data-driven decision-making processes.

PROJECTS

Breast Cancer Detection Model | *Python* Aug 2023 – Oct 2023
- Built an ML model with **92% accuracy** to classify tumors using the Breast Cancer Wisconsin Dataset.
- Preprocessed data and evaluated models (**Logistic Regression, Random Forest, XGBoost**), improving performance by **15%**.
- Reduced data preprocessing time by **25%** through efficient handling of missing values.

Data Analysis of AirBnb | *SQL, Tableau* Dec 2024 – Dec 2024
- Analyzed **10,000+ entries** to identify pricing trends, uncovering a **20% price variation** based on location.
- Created **Tableau dashboards** to visualize price analysis by zip code and map listing locations.
- Identified seasonal trends, leading to a **10% increase** in revenue for property owners during peak seasons.

EDA of tech layoffs from COVID 2019 − 2023 | *Python, SQL, Excel* Nov 2024 – Dec 2024
- Conducted **EDA** on **5,000+ tech layoffs**, removing **15% duplicates** and handling **10% null values**.
- Standardized data formatting, improving dataset reliability by **25%**.
- Delivered insights into layoff trends, enhancing understanding of the post-COVID tech landscape.

TECHNICAL SKILLS

Languages: Python, C/C++, OOP, SQL
Data Visualization Tools: Tableau, PowerBI
Developer Tools: Github, Jupyter Notebook, VS Code, Visual Studio, PyCharm
Libraries: pandas, NumPy, Matplotlib, Sci-kit Learn, Tensorflow, STL

ACHIEVEMENTS

- **Health Hackathon Finalist** (VIT Bhopal University, India and Johns Hopkins University, USA)
- **CodeChef Global Rating: 1059**