Soham Ghosh

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PROFESSIONAL SUMMARY

Highly motivated **B.Tech Computer Science** student with strong skills in **data analysis**, **data management**, and **ETL processes**. Proficient in **SQL**, **Excel**, **Python**, and **Power BI** for **data extraction**, **transformation**, **visualization**, and **reporting**. Experienced in delivering **data-driven insights**, performing **trend analysis**, and **creating interactive dashboards**. Passionate about **relational databases**, **predictive analytics**, and **business intelligence**, with a commitment to solving **real-world problems** through **data-driven decision-making**.

Technical Skills

Languages: *SQL, Python, Java, HTML5/CSS3*

Data Analysis & Visualization: *Excel, Power BI, Matplotlib, Seaborn*

Databases: *MySQL*

Data Engineering: *ETL, Data Cleaning*

Tools & Platforms: *Jupyter Notebook, Git, VS Code, Google Colab*

Education

University of Engineering & Management, Kolkata	*2022–2026 (Expected)*
B.Tech in Computer Science Engineering, GPA: 7.77/10 (Till 5th Semester)	
Julien Day School, Howrah, ISC	*2022*
Score: 74.66%	

Projects

NeoScan - Brain Tumor Detection using Deep Learning — *(Python, ResNet50, TensorFlow, Keras, OpenCV, NumPy, Matplotlib, VS Code)*

- Achieved 94.7% classification accuracy on test data using ResNet50, outperforming traditional CNN architectures in terms of both precision and recall.
- Implemented fine-tuning techniques to enhance model performance on a domain-specific MRI dataset.
- Performed extensive data preprocessing to improve model generalization and reduce overfitting by ~18%.
- Evaluated model performance using metrics like accuracy, F1-score, confusion matrix for analysis.

Weather Detection App — *(Python, JSON, API Integration)*

- Integrated OpenWeatherMap API and WeatherAPI to fetch real-time weather data, including temperature, humidity, wind speed, and weather conditions, with a response success rate of 99%.
- Built a user-friendly GUI using Tkinter, improving usability and reducing data input errors by 30%.
- Implemented data parsing using JSON and automated location-based search features to enhance accessibility.
- Achieved 100% uptime during testing by adding robust error handling for invalid city entries and API errors.

Certifications & Achievements

- HackerRank SQL Basic Skill Certification Test
- HackerRank 5 Star Gold Badge in SQL
- IBM Machine Learning (Coursera)
- Accenture UK Job Simulation (Forage)
- German Language A1 Certificate