

SIDDHARTH HAVELIWALA

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WORK EXPERIENCE

University At Buffalo, The State University Of New York

Jan 2024 – May 2025

Graduate Research Assistant

Buffalo, New York

- Built a school campus patrolling application that improved safety coverage by 90% and reduced incident response time.
- Generated data-driven optimized patrol routes using **statistical modeling**, operation research, and linear programming.
- Collaborated with Northeastern University to build an operational tool for Boston Transit security resource allocation through **Python**, **Flask**, and Mapbox.

Accenture

Dec 2021 – Jul 2023

Senior Data Analyst

Bengaluru, India

- Compiled, deployed, and maintained 15+ Accenture SynOps dashboards using **Power BI**, automation, and **Big Data analytics** for financial, sales, and operational KPIs.
- Enhanced CIO governance reporting by implementing ARIMA-based forecasting using Python, **Hadoop**, and **Spark** that resulted in advanced IT decision-making.
- Led a team in a platform migration from **SSRS** to Power BI and from **MS-SQL Server** to Google **BigQuery**, impacting 100+ clients, amplifying data integration and reporting efficiency to the optimum.
- Resolved 250+ data-related ITIL (ServiceNow) requests, troubleshooting on Power BI, **Tableau**, SSRS, OpenText reports, and data stores, achieving 100% accuracy, directly reducing client business costs.

CRG Solutions Private Ltd.

Jun 2021 – Nov 2021

Data Analyst

Mumbai, India

- Streamlined ETL processes using **SSIS** and Power BI, saving an average of 2 hours per day in data processing time and augmenting sales teams' interaction with senior management.

Vajiram & Ravi Institute

Sept 2019 – Apr 2021

Independent Study & Exam Preparation

New Delhi, India

- Took a sabbatical to appear for the prestigious and most competitive UPSC Indian Civil Services examination.

Intellect Design Arena

Jun 2017 – Aug 2019

Product Engineer

Chennai, India

- Installed **ETL** scripts using **C#**, **VBA**, and data profiling that reduced ETL load time by 50% and storage costs by 20%.
- Collaborated with the Robotic Process Automation (RPA) and R&D team to build smart-document processor based on OCR and **NLP** techniques automating manual tasks and diminished human errors by 20%.
- Identified and resolved performance bottlenecks in **AWS cloud** and **data warehouse** operations through schema optimization and data normalization, resulting in +95% data quality.

PROJECTS

Centralized AI Assistant for DHS Operations – Created an **LLM-RAG**-based chatbot for DHS using Llama 2 model and **FAISS** database to improve cross-departmental collaboration and modernize decision-making workflows. 2025

Forecasting Impact of Solar Flares on Earth – Predicted intense solar flares using **time-series models** such as exponential smoothing, ARIMA, and state-space VAR models with 95% accuracy. 2024

Predicting IPO Performance – Devised **machine learning** models to predict Initial Public Offering (IPO) performance on listing day using Bayesian optimization, CatBoost, and neural network methods with a test accuracy of 82.5%. 2023

Music Genre Recommendation – Curated auto-playlists for users by **unsupervised classification** using PCA, K-means clustering, and XGBoost/CatBoost models on Spotify data from 2000 to 2012 with 71% test accuracy. 2023

EDUCATION

University at Buffalo, The State University of New York

Aug 2023 – May 2025

Master of Science in Industrial and Systems Engineering (focused on Data Analytics)

Buffalo, New York

Malaviya National Institute of Technology

Jul 2013 – May 2017

Bachelor of Technology in Computer Science and Engineering

Rajasthan, India

SKILLS

- **Languages:** Python, SQL, R, PostgreSQL, HTML/CSS, Java
- **Technologies:** AWS, EC2, S3, GCP, BigQuery, Azure, Spark, Hadoop, Kafka, GitHub, VS Code, Jupyter, Power BI, Tableau

LEADERSHIP / CERTIFICATIONS

- Won the 3rd Place in DASSH 2025 competition (Security in an AI World) hosted by DHS
- Certified 365 Data Science Professional