

Harsh Singhania

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EDUCATION

Stevens Institute of Technology May 2023
Master of Science in Computer Software Engineering Hoboken, NJ

University of Mumbai June 2021
Bachelor of Engineering in Information Technology Mumbai, India

PROFESSIONAL EXPERIENCE

[DynPro Inc,](#) July 2023 – Present
Data Scientist Hoboken, NJ

- Developed and trained a medical chatbot using Meta's **Llama 2 LLM** to provide accurate responses to user enquiries by employing **Python, Langchain framework** and **Pinecone**
- Spearhead ongoing projects focused on developing **time series forecasting** models on 6 years of retail sales dataset using Python and machine learning algorithms

[DynPro Inc,](#) Sep 2022 – May 2023
Data Scientist Intern Hoboken, NJ

- Conducted **prediction and classification model** building on a healthcare dataset using Vertex AI (AutoML, Custom ML Model) and BigQuery, leading to **85% accuracy** in patient health outcome predictions
- Utilized **statistical modeling** and machine learning algorithms to provide data-driven recommendations to clients, collaborating with three cross-functional teams—developers, engineers, and business stakeholders—to optimize project execution and improve project quality.

[Stevens Institute of Technology,](#) Jan 2022 – Dec 2022
Graduate Teaching Assistant Hoboken, NJ

- Served as a **teaching assistant** for SSW 215 – Individual Software Engineering and as a Graduate Grader for SSW 540 – Fundamentals of Software Engineering, while providing guidance and support to over 60 students through **Python programming lab sessions** and regular office hours, resulting in a **20% increase** in average student performance.

[Cancer Patients Aid Association,](#) Oct 2020 – Dec 2020
Data Analyst Intern Mumbai, India

- Analyzed and segregated data records of 1000+ patients using Python and **MySQL** software and conducted necessary SQL functions to get accurate results on patients' records
- Devised and implemented database solutions to **optimize organizational efficiency**, ensuring seamless management of large datasets with **zero data loss**, thereby facilitating future analysis and decision-making

[Vodafone Idea Ltd,](#) Jul 2020 – Aug 2020
Data Analyst Intern Mumbai, India

- Solely responsible for **analyzing data** of 7K+ records of telecom cell tower sites with parameters such as - Total Cost, Total Minutes of Usage, Site IDS & Total Revenue
- Formulated strategic solutions leveraging Python libraries (**pandas, Matplotlib, NumPy**) to optimize underperforming cell tower sites, **enhancing utilization** and **revenue potential**, and successfully mitigated financial losses by 15% through data-driven analysis and relocation strategies.

ACADEMIC PROJECTS

[University of Mumbai](#) May 2021
[Recommending top N movies using Collaborative and Content based Filtering](#) | **Python, Hadoop, Hive, Machine Learning**

- Led and developed a **movie recommendation model** by analyzing 5K+ movies dataset from Kaggle which understood the user's behaviour for their interest in movie and recommend accurately
- Implemented machine learning techniques like – Collaborative filtering [**Singular Value Decomposition**] and Content-based filtering [**Cosine Similarity**]

[Stevens Institute of Technology](#) Dec 2022
[Game On](#) | **JavaScript, MongoDB, NodeJS**

- Led the strategic planning and execution of "Game On," a revolutionary platform that connected players for sports events, driving a **50% increase** in event participation and a **30% growth** in user retention rates
- NodeJS packages – bcrypt, express-handlebars, node-open-geocoder, nodemailer

SKILLS

Programming: Python [Scikit-learn, Pandas, NumPy], JavaScript, R, Java, SQL, C, NodeJS, MongoDB

Software & Tools: Langchain, Pinecone, Llama-2, Workato [2x Certified], Vertex AI, Google Cloud Platform, Visual Studio Code, Jupyter Notebook, RStudio, MySQL, Docker, Terraform, Git, Big Query, Microsoft Suite

Reporting: Matplotlib, Seaborn, Tableau