Siddhant Shah

Boston, MA | sidshah2953@gmail.com | (857) 919 5600
siddhants.com | linkedin.com/in/shah-siddhant/

Education

Boston University
Boston, MA, USA
09/2024 – Present

Master of Science (MS) in Applied Data Analytics
- Analysis of Algorithms; Data Science with Python.
- Foundations of Analytics and Data Visualization; Foundations of Machine Learning.

Chennai Mathematical Institute
Chennai, TN, India
09/2021 – 07/2024

Bachelor of Science (Hons) - Mathematics and Computer Science
- Linear algebra; Analysis of multi-variate functions, Fourier Analysis; Differential Equations; Topology; Design & Analysis of Algorithms, Theory of Computation – Finite State Automata, Pushdown Automata & Turing machines.
- Probability Theory - expected values, standard deviation & variance; Stochastic Processes; Statistical Inference.
- Data Mining & Machine Learning; Applied Machine Learning (ML Development with CI and CD).
- Financial Modelling with Python – Valuation of Different Cashflows, Assets and Portfolios; Economics.

Experience

Raising A Mathematician (RAM) Foundation
Mumbai, MH, India
07/2024 – 08/2024

Program Operations Intern, Maths Circle
- Analyzed applicant data to identify most viable locations for initial chapters.
- Spearheaded the establishment and start of the Maths Circle Initiative in Chennai; received 300 applicants from the greater Chennai area, accepting 35 students.

Skills Used: *Data Analysis, Python, Microsoft Excel, Confluence, Jira*

Mumbai Science Teachers Association
Mumbai, MH, India
07/2021 – 08/2024

Mathematics & Physics Teacher, Science Enrichment Program
- Helped students prepare for the various stages leading up to the International Junior Science Olympiad, one of whom won a gold medal for Team India at the International Biology Olympiad in 2024.

Skills Used: *Teaching, LaTeX, Communication*

Fino Payments Bank
Navi Mumbai, MH, India
05/2023 – 07/2023

Data Analytics Intern
- Created a database of over 6000 active government-sponsored schemes, distributing over INR 20,000,000,000.
- Worked in PySpark, to identify potential revenue streams that could double revenue in the upcoming years.
- Performed a cost-to-benefit analysis, drafted a proposal for a nation-wide marketing plan to promote government-sponsored-scheme-related services offered by the bank.

Skills Used: *Data Analysis, NumPy, Pandas, PySpark*

Projects

Probabilistic Programming (Pyro)
Chennai, TN, India
08/2023 – 08/2024

Supervised of Prof. G Philip, Chennai Mathematical Institute
- Utilized Pyro, a PyTorch-based framework in Python, for exploring tools and techniques.
- Implemented Bayesian Regression using Stochastic Variational Inference and Hamiltonian Markov Chains.
- Generated insights from a dataset, published and maintained by HFEA (UK), contributing valuable information for medical professionals and patients.

Skills Used: *Data Analysis, Pyro, PyTorch, NumPy, Pandas, PySpark*

Business Analyst Experience Program
Online
01/2024

Finlatics
- Assessed business projects and proposed solutions using data driven decision making, solving problems of technology-oriented businesses with a goal to improve their profitability.
- Learnt Power BI and how it can be used as an intelligence tool to gain insights on a business.

Skills Used: *Business Analysis, Power BI, Microsoft Excel*

Leadership & Activities

Tessellate 2024 | Chennai Mathematical Institute
Chennai, TN, India
Overall Coordinator
10/2023 – 05/2024
- Presented budgets, created marketing strategies, and designed merch.
- Coordinating with vendors, sponsors and management and handling all income streams to ensure smooth operation.

Skills Used: *Leadership, Business Analysis*

KVPY Fellowship Award
2019 - 2024
- Secured an All-India Rank 328 in the Kishore Vaigyanic Protsahan Yojana Aptitude Test 2019 and Interview 2020.
- Appointed as an INSPIRE Fellow by the Department of Science & Technology, Government of India, and the Indian Institute of Science.

Certifications

- **Finance & Quantitative Modeling for Analysts** | UPenn (Coursera) | 01/2024
  Read, interpreted and prepared financial statements for multiple case studies; Conducted fundamental equity research and made appropriate investment strategies
- **Decentralized Finance (DeFi) Primitives** | Duke University via Coursera | 07/2023
- **Principles of Corporate Finance** | MIT OCW | 08/2022
  Fundamental concepts of corporate finance, including valuation, capital budgeting, risk management, and financial decision-making.
- **CS50: Introduction to Computer Science** | Harvard via EdX | 09/2021

Skills & Additional Courses

- **Coding -** *Python & R* (NumPy, Pandas, PySpark, PyTorch, MatPlotLib, Seaborn, PyGWalker, Flask, Django), *C, Java*
- **Business Analytics** - *Power BI*
- **Microsoft Office** – *Excel*, PowerPoint, Word, Outlook
- **Web Development & Design** - *JavaScript* (Astro, Node.JS, React.JS), *HTML & CSS* – Sass & Tailwind; *Figma*; *Adobe Suite* (Photoshop, Illustrator, Premiere Pro)
- LaTeX & Markdown