

# Siddhant Shah

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## Education

### Boston University

#### 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.

Boston, MA, USA

September 2024 – Present

### Chennai Mathematical Institute

#### Bachelor of Science (Hons) - Mathematics and Computer Science

- Linear algebra, Exterior & Tensor algebra, Group theory & Ring theory; Analysis of multi-variate real-valued functions, Fourier Analysis; Differential Equations; Topology; Design & Analysis of Algorithms, Theory of Computation – Finite state automata, pushdown automata and Turing machines.
- Probability Theory - expected values, standard deviation & variance; Stochastic Processes; Statistical Inference.
- Linear Programming; Theoretical Foundations of Machine Learning; Data Mining & Machine Learning; Applied Machine Learning (Machine Learning Development Pipeline with CI and CD).
- Financial Modelling with Python – Valuation of Different Cashflows, Assets and Portfolios; Economics.

Chennai, TN, India

September 2021 – July 2024

## Experience

### Maths Circle | Raising A Mathematician (RAM) Foundation

#### Program Operations Intern

- 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.
- Lead a team of problem setter, created question papers for various RAM Examinations.

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

Mumbai, MH, India

July 2024 – August 2024

### Science Enrichment Program | Mumbai Science Teachers Association

#### Mathematics & Physics Teacher

- 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.
- Prepared and implemented lesson plans covering required course topics.

Skills Used: *Teaching, LaTeX, Communication*

Mumbai, MH, India

July 2021 – August 2024

### Fino Payments Bank

#### 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*

Navi Mumbai, MH, India

May 2023 – July 2023

## Projects

### Probabilistic Programming (Pyro)

#### 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 about important factors from a larger medical dataset, published and maintained by HFEA (UK), contributing valuable information for medical professionals and patients.

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

Chennai, TN, India

August 2023 – August 2024

### Business Analyst Experience Program

#### Finlatics

- Understood research, types of data analytics, their usage and the benefits of data driven decision making across industry

Online

January 2024

segments like FMCG, e-Commerce, Manufacturing, Technology and Banking.

- Assessed business projects and proposed solutions using data driven decision making.
- Solved case 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  
October 2023 – May 2024

#### Overall Coordinator

- 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) | January 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 | July 2023
- **Principles of Corporate Finance** | MIT OCW | August 2022
- **CS50: Introduction to Computer Science** | Harvard via EdX | September 2021

## Skills & Additional Courses

- **Python & R** – NumPy, Pandas, Polars, PySpark, PyTorch, Matplotlib, Seaborn, PyGWalker, Flask, Django
- **C, Java, JavaScript** – Astro, Node.JS, React.JS
- **LaTeX & Markdown; HTML & CSS** – Sass & Tailwind