Aadi Deshpande

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EDUCATION

The University of Chicago   **Chicago, IL**
Master of Science in Financial Mathematics   **Expected December 2025**

- Courses: Probability & Stochastic Processes, Portfolio Theory & Risk Management, Computing for Finance in Python, Option Pricing

Manipal Institute of Technology   **Manipal, India**
Bachelor of Technology, Computer Science and Engineering (3.55/4.0)   **July 2022**

- Courses: Algorithmic Trading, Deep Learning, Data Structures and Algorithms, Object Oriented Programming, Database Systems

SKILLS

Computing: Python, C/C++, Java, SQL, Javascript, Unix/Linux
Knowledge: Financial Markets, Derivatives, Machine Learning, Software Development, Data Analytics
Libraries: NumPy, Pandas, Seaborn, Matplotlib
Trading Products: Equities, Options, Futures, Commodities, Cryptocurrencies

EXPERIENCE

Goldman Sachs   **Bengaluru, India**
Engineering Analyst   **August 2022 - Present**

- Develop user onboarding micro-services for a securities and lending platform using Java and Spring Boot, streamlining processes for new users
- Integrate micro-services with external vendors using Spring Integration message channels, enhancing user background check processes. Implemented a retry mechanism to manage and address failures
- Execute intricate SQL queries to resolve data-related issues in lower testing environments
- Lead a team of four to design and create a comprehensive money movement dashboard to facilitate transaction tracking for the Private Wealth Management team, enhancing data visibility and analysis
- Craft a side drawer feature in React.js and a manual filtering system for transaction exploration, reducing user tracking time by 30% per week

Cubyts Research Labs Inc   **Bengaluru, India**
Software Engineering Intern   **October 2021 - June 2022**

- Employed a Proof of Concept approach to seamlessly integrate file hosting services, including Google Drive, OneDrive, and Dropbox, with the DesignOps platform
- Utilized Nightwatch.js to automate browser-based testing, resulting in a substantial reduction in daily testing time by 50%. The efficiency improvement contributed to faster development cycles

PROJECTS

Goldman Sachs   **Bengaluru, India**
AutoNLP Invoice Data Extractor (part of Goldman Sachs Hackathon)   **February 2023 - March 2023**

- Developed a robust 'Question Answering' model by leveraging a fusion of Context Question Answering (roBERTa) and Document Question Answering (LayoutLM) methodologies
- Extracted critical data, including invoice numbers, SWIFT codes, transaction amounts, and payment due dates, from payout invoices. The invoices, initially in PDF formats, were processed by Tesseract for conversion into images
- Established an alert mechanism to swiftly identify and rectify extraction failures. It not only streamlined the manual data entry process for users but also enhanced the turnaround time for payments by over 2 hours

EXTRACURRICULAR

Manipal Institute of Technology   **Manipal, India**
Member, PyData Manipal   **January 2020 - January 2021**

- Led a team of seven to conduct a workshop titled 'Introduction to Open Source Contributions' for the PyData Manipal community, attracting over 60 college students. The workshop covered fundamental Git knowledge and guided participants on contributing to major libraries: TensorFlow, Pandas, and NumPy