Sagar Devaraju

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EDUCATION

Northwestern University   Evanston, IL
Master of Engineering Management   December 2026 (Anticipated)
Kellogg School of Management: Decision Models & Prescriptive Analytics
McCormick School of Engineering: Engineering Management, Managerial Analytics

Visvesvaraya Technological University   Bengaluru, India
Bachelor of Engineering, Information Science & Engineering   August 2016 – August 2020

- Relevant Coursework: Operation Research, Design and Analysis of Algorithms, Machine Learning (ML), Database Management Systems, Information Management System.

TECHNICAL SKILLS

Languages: Python, MySQL, Java
Libraries: Scikit-Learn, TensorFlow, Ray, PySpark, Pandas, NumPy, Matplotlib, Seaborn, LangChain
Frameworks: FastAPI, Flask, Falcon, Spring Boot
Cloud and DevOps Tools: Google Cloud Platform (GCP), Docker, Kubernetes, Telepresence, Git

EXPERIENCE

Senior Software Engineer - Machine Learning   July 2024 – August 2025
Manhattan Associates (R&D) ⧉

- Scaled ML platform to process 200M+ rows of time-series supply chain data using Modin with Ray/Dask, improving scalability and reliability.
- Redesigned release pipelines, reducing build times by 55% and giving back over 2 hours of daily productivity to each developer.
- Collaborated with cross functional teams to understand and prototype a proof of concept for internal users to interface with using Large Language Models (LLM) in Manhattan's knowledge base thereby making information access easier and more concise.

Software Engineer - Machine Learning   February 2021 – June 2024
Manhattan Associates (R&D) ⧉

- Designed and developed an in-house microservices-based ML platform with automated model training, custom estimators, and seamless PySpark integration, facilitating large-scale model lifecycle management and leading to zero production outages.
- Enhanced inference performance for machine learning models, achieving sub-20ms response times and exceeding SLA requirements, ensuring real-time applicability in production environments.
- Collaborated with cross continental teams to build regression and classification models for supply chain optimization, leveraging large datasets to deliver impactful solutions for clients such as Kering (Gucci, Balenciaga), Lacoste, Diesel SpA, L Brands (Victoria's Secret, Bath & Body Works), and L'Occitane.

Software Engineer Intern - Machine Learning   August 2020 – January 2021
Manhattan Associates (R&D) ⧉

- Researched using DVC for tracking offline artifacts for the ML platform, contributing to the improvement of the company's model tracking and management capabilities.
- Worked on middleware for authentication and communication between components using Netflix Eureka, enhancing the robustness of internal microservices.
- Researched into online maintenance practices using FastAPI as the web framework, contributing to the development of a more efficient and maintainable system for real-time operations.

PROJECTS

NotebookML | *Python, papermill, modin, zenML, JupyterLab, testbook, optuna, ray, dask*

- Architected and implemented an automated ML platform using a series of dynamically generated jupyter notebooks, improving the analysis efficiency of Data Preparation to Model Evaluation workflows by 40%.
- Integrated papermill and testbook to establish a CI pipeline, leading to a 30% reduction in manual testing time.
- Leveraged modin with dask/ray engines to scale operations for high volume datasets, ensuring high performance and scalability.
- Implemented hyperparameter tuning using optuna, resulting in a 15% improvement in model accuracy.
- Advocated for and integrated this platform at Manhattan Associates, enhancing reproducibility and scalability in research ML workflows.

LEADERSHIP EXPERIENCE

Manhattan Associates (R&D) ⧉   Bengaluru, India

- **Mentorship and Onboarding** (2022 – 2025) - Provided hands-on training to new hires and guided existing developers, upskilling the team and streamlining the onboarding process to be more efficient.
- **Interviewing and Hiring** (2022 – 2025) - Conducted over 60 technical interviews annually for ML Engineering and Data Scientist roles, introduced screening rounds for effective interviewer time management for the organization.

CERTIFICATIONS

Google Cloud Certified - Professional Machine Learning Engineer
Certificate ⌕   *Validity: 2023 – 2025*

- Skills Acquired: AutoML, VertexAI, BigQuery, Big Data Analytics, Kubeflow, Distributed Training, Tensorflow

AWARDS AND ACHIEVEMENTS

Top Talent   Manhattan Associates
Recognized as top talent internally and trained for fast track growth in the company   *January 2025*

Star of the Quarter   Manhattan Associates
Streamlined and optimized Data Science processes at Manhattan Associates.   *December 2023*

Above and Beyond   Manhattan Associates
Delivered significant milestones in machine learning projects, driving impactful results.   *December 2022*

Star of the Quarter   Manhattan Associates
Achieved 1500% optimization in a critical business operation, resulting in notable efficiency gains.   *April 2022*

Rising Star   Manhattan Associates
Demonstrated exceptional performance and potential in early career at Manhattan Associates.   *July 2021*

ADDITIONAL EXPERIENCE

Game Developer   March 2020 – April 2020
Citizen of Rome - Dynasty Ascendant ⌕   *Remote*

- Worked on the game Citizens of Rome - Dynasty Ascendant, a simulation game set in Ancient Roman Republic which is monetized and exceeded over 5,000 downloads.
- Researched and incorporated historical events into the game using VueJS.
- Reference Letter ⌕

Volunteer - North America / European Union   December 2017 – September 2019
MY.GAMES - Formerly my.com ⌕   *Remote*

- Assisted in the management and maintenance of Conqueror's Blade and Revelation Online titles which reached concurrent player peak of 15,000 on Steam.
- Conducted internal testing and identified major bugs prior to alpha testing.
- Managed social media communication channels to engage with the community, resulting in a 20% increase in social media followers.
- Collaborated with cross-continental teams to create trailers for the launch of Conqueror's Blade and assisted with moderation of Ashes of Creation.
- Reference Letter ⌕