

Abhishek Dharmadhikari

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[Google Scholar](#)

EDUCATION

Georgia Institute of Technology <i>Master of Science in Computer Science (MSCS); Specialization: Machine Learning</i> <i>Relevant Coursework: Machine Learning, Natural Language Processing, Data & Visual Analytics</i>	Aug 2025 – May 2027
College of Engineering Pune (COEP), Pune <i>B.Tech in Computer Engineering; Honors in Data Science; Institute Rank: 1/780; GPA: 9.81/10</i> Link to Transcript <i>Relevant Coursework: Operating Systems, Networking, Computer Organization, Data Structures & Algorithms, Deep Learning, Databases, Cloud Computing, Devops, Object-Oriented Programming, Linear Algebra, Calculus, Probability & Statistics</i>	Aug 2019 – May 2023

EXPERIENCE

Wells Fargo <i>Software Engineer</i>	Hyderabad, Telangana, India Aug 2023 – July 2025
<ul style="list-style-type: none">Led the development of the Independent Price Verification (IPV) tool in the India time, supporting accurate pricing and valuation of financial portfolios worth over \$200B, using Angular, Django, Python (ETL).Developed a python-based ETL pipeline processing over 12M records daily from 130+ sources, including database extractions, APIs, FTP servers, and file reads.Optimized query performance by 66% through the implementation of database indexing and archival process.Automated generation and validation of 50+ commodity control sheets using Python, eliminating 250,000+ formula operations, saving 8 hours of effort and reducing processing time by 99.6%.Awarded the Team Spotlight Award for reducing 75+ yearly incidents, improving overall system reliability by 46%.	
Multimodal Digital Media Analysis (MIDAS) Lab, IIIT Delhi <i>Research Intern</i>	Remote Jun 2023 – Dec 2024
<ul style="list-style-type: none">Evaluated the reasoning capabilities of 5 Multimodal Large Language Models in the geometry domain.Led a team of 3 to create GEOVQA, a high-quality Indian-context geometry benchmark dataset with 4K images.Devised the Mixture of Refinement Agents (MoRA) framework to iteratively reduce reasoning errors in physics tasks, improving accuracy by up to 16% on SciEval and MMLU for open-source LLMs(LLaMA-3 and Gemma-2).	
Citibank India <i>Technology Summer Analyst Intern</i>	Remote May 2022 – Jul 2022
<ul style="list-style-type: none">Proposed and migrated the UI of an in-house Process Automation Tool from Thymeleaf to Angular, used for productivity tracking and vendor resource management in the Payments and Receivables unit.	
ISRO COEP Satellite Team Initiative (CSAT) <i>Attitude Determination and Control Subsystem(ADCS) Contributor</i>	Pune, Maharashtra, India Jan 2020 – Feb 2022
<ul style="list-style-type: none">Implemented the TRIAD algorithm and an Unscented Kalman Filter in C to determine satellite attitude and improve the accuracy of attitude estimation, respectively, with testing performed using real satellite data.	

PROJECTS

Sustainability Benchmark Automation <i>Python, Flask, Streamlit, Azure SDKs</i>	Mar 2024
<ul style="list-style-type: none">Spearheaded the design and deployment of a full-stack web solution on Azure App Service during a company-wide hackathon; led a team of 4 to automate Environmental, Social, and Governance (ESG) pdf report analysis.Engineered a RAG pipeline by integrating Azure Form Recognizer for pdf to text extraction, Azure Search Index for context retrieval, and Azure OpenAI (GPT-4) for Q&A on 100+ pages long ESG documents.	
User-Threads - Operating Systems <i>C, Systems Programming, Coroutines, Bash</i>	May 2022
<ul style="list-style-type: none">Built a user-level multi-threading library in C, supporting 3 mapping models: one-one, many-one, many-many.Exposed APIs for thread lifecycle management, implemented synchronization primitives like spinlock and signal handlers for over 50+ signals.Validated models using race conditions and achieved 80% reduction in execution time for matrix multiplications.	
HTTP Server - Computer Networks <i>Python, Socket Programming, threading library, MDN Docs</i>	Nov 2021
<ul style="list-style-type: none">Developed a multithreaded HTTP/1.1-compliant web server in Python following RFC 2616 standards.Implemented 5 HTTP methods (GET, POST, PUT, DELETE, HEAD), 15 status codes, 5 media types, multipart form data handling.Designed a customizable configuration file for server-side settings with 12+ configurations(e.g., Keep-Alive, timeout).	

TECHNICAL SKILLS

Programming Languages:	C, C++, Python, Java, JavaScript, TypeScript, HTML/CSS, Bash, SQL, PHP, Assembly
Databases:	MySQL, MongoDB, Microsoft SQL Server, Chroma, Azure Cosmos DB
Frameworks & Libraries:	ETL, Django, Flask, React, Node.js, Springboot, Angular, NumPy, TensorFlow, PyTorch
Developer Tools:	Git, Docker, AWS, TCP/IP, REST API, Kubernetes, Jenkins, Agile, SDLC, CI/CD, Linux

ACADEMIC ACHIEVEMENTS

- Awarded the **Gold Medal** for securing **Rank 1/780** as Institute and Computer Engineering Branch Topper.
- Received the **Best Performer in Mathematics Award** for scoring **perfect AA grades** in all 5 undergrad maths courses.
- Honored with the **Alumni Association Award** for being the Institute Topper in **Sophomore and Pre-Final** years among 780 students.