

Dhruv Maheshwari

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EDUCATION

University of Massachusetts Amherst | MS Computer Science (Data Science Conc.) | GPA: 3.91/4.0 May 2025
Coursework: Software Engineering, Database Management, Machine Learning, Advanced Algorithms, Applied Statistics
Aligarh Muslim University, India | B.Tech Computer Engineering | GPA: 9.2/10.0 June 2023

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript, Dart, SQL (MySQL, PostgreSQL), BigQuery, NoSQL (MongoDB), HTML, CSS
Frameworks & Tools: React.js, Node.js, Firebase, Flutter, TensorFlow, NumPy, Git, GitHub, Google Colab, REST APIs, CI/CD
Core CS: OOP, DSA, Operating Systems, System Design, Multithreading, Agile, Design Patterns, Version Control (Git)
Cloud Platforms: AWS (S3, Lambda), Microsoft Azure, Docker.

WORK EXPERIENCE

Google DeepMind Jan 2025 - Present

Graduate Researcher

- Enhanced long-context story ending generation using LLMs, improving coherence by **20% over baseline models**.
- Designed and implemented **novel evaluation metrics** combining automated assessments, LLM-based judgments, and human feedback to evaluate coherence, creativity, and faithfulness of the generated story endings.

Krishworks Technology and Research Labs Pvt Ltd June 2022 - May 2023

Software Engineering Intern

- Developed a bilingual Learning Management System (LMS)** with interactive courses, **achieving 5,000+ downloads** in the first month, enhancing English proficiency for **20,000+ students** through flashcards, quizzes, and progress tracking.
- Integrated OAuth authentication, seamless APIs, designed database & reduced query response time by **~30%**, **boosting user engagement by 20%**, leading Alpha & Beta testing to **resolve ~90% issues**, improving quality assurance & user satisfaction.

Aura Estates Ltd Sept. 2021 - Dec. 2021

Software Engineering Intern

- Built and deployed a **cross-platform Flutter app**, enhancing digital engagement by **~25%** and increasing user session duration by **~30%** through optimized UI performance on iOS and Android.
- Designed a React.js admin portal** with Firebase, enhancing property management efficiency by **~40%**, reducing manual entry by **~50%**, and boosting user satisfaction by **~35%** with advanced search and Google Maps integration.

Solvokit (An EdTech Startup) June 2020 - Aug. 2021

Full Stack Developer Intern

- Executed key features from scratch using the MERN stack, including user authentication and profile management, creating a seamless and secure user experience.
- Conducted usability testing with 1,000+ users**, incorporating feedback to enhance platform stability by **~30%**, improving the learning experience for students and teachers.

TECHNICAL PROJECTS

Cross-City Image Classification via Transfer Learning (Python, Tensorflow, pandas, NumPy, CNN, Google Colab) [\[Github\]](#)

- Developed a custom CNN using ResNet50 and VGG16, achieving 93% accuracy on multi-city datasets using 10K+ Amherst images captured for the project, with enhanced interpretability via Grad-CAM and confusion matrices.
- Contributed a 10K+ image dataset now **featured on the Town of Amherst website**, with formal acknowledgment for its academic value in civic AI applications. [\[Letter\]](#)

PerfectPitch (Next.js, Tailwind.css, Firebase, Gemini.ai, LLM, Assembly.ai) [\[Github\]](#)

- Engineered PerfectPitch, an AI-driven platform for optimized interview prep, integrating LLM and speech recognition for customized feedback and simulations, **enhancing candidate performance by 35%**.
- Developed an LLM-based resume analysis feature in PerfectPitch, offering tailored feedback and ATS score improvements, resulting in a **25% higher match rate for job applications**.

PrimeSpot (Flutter, Dart, NoSQL, VS Code) [\[Github\]](#)

- Developed a full-stack mobile app to **connect local shopkeepers with 5,000+ potential customers**, integrating real-time inventory management for 100+ products using Firebase to enhance user engagement.
- Implemented a secure payment gateway and real-time order tracking with Maps, optimizing order management and targeting a **95% on-time delivery rate**.

LEADERSHIP & AWARDS

- Led a 5-member team** to win **1st place** at Hack(Her) 413 and **2nd** at AMUHacks 1.0, showcasing project management, collaboration, leadership, and problem-solving in high-pressure hackathon environments.
- Ranked **1st among 25,000+ candidates** in the AMU Engineering Entrance Exam, demonstrating analytical rigor and problem-solving excellence.
- Won **1st place** in the Open Table Tennis Championship in Uttar Pradesh, reflecting discipline, strategic thinking, and performance under pressure.