Divyaansh Seth

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CAREER OBJECTIVE

To apply my software engineering and machine learning expertise to architect, build, and deploy scalable AI/ML systems that drive data-driven innovation and operational excellence at a leading technology company.

EDUCATION

University of Massachusetts-Amherst Amherst | *Sep 2023* - May 2027

- BS with double major in Computer Science & Mathematics (Statistics and Data Science concentration) ; Minor in Business
- **GPA:** 3.6/4.0
- **Relevant Coursework:** Data Structures, Introduction to Algorithms, Object Oriented Programming, Computer Systems Principles, Programming Methodology
- **Additional Coursework:** Reasoning under Uncertainty, Probability and Statistics, Discrete Math, Linear Algebra, Multivariate Calculus, Ordinary Differential Equations
- **Honors:** Chancellor's Scholar, Dean's List

Amity International School New Delhi | Apr 2021 - May 2023

- High School Diploma,
- **Grade:** 95.8%
- **Coursework:** Computer Science, Physics, Chemistry, Mathematics, English
- **Honors:** Head of technology- Student Body, Head of graphics- Student newspaper,
- **Achievements:** SAT Score- 1550, IELTS Score – 8.0

STUDENT INTERNSHIP EXPERIENCES

NATIONAL INFORMATICS CENTRE New Delhi, INDIA

Role: Summer Intern – AI and Machine Learning (Ongoing) June 2025 – Till Date

Driving NIC's transition from DialogFlow to a scalable Retrieval-Augmented Generation (RAG) pipeline using NVIDIA NeMo and DGX A100. Architecting dense vector embeddings with NeMo Curator, integrating Milvus vector DB for fast retrieval. Implementing NeMo Retriever to augment LLM prompts, improving response accuracy by 5–10× and reducing hallucinations via knowledge-grounded answers.

Grant Thornton Bharat LLP New Delhi, INDIA

Role: Student Intern - Data Analytics and Consulting June 2024 - Aug. 2024

Engineered a statistical model forecasting India's Multidimensional Poverty Index (MPI) reduction by 2047 using regression and time-series analysis in Python (NumPy, Pandas, scikit-learn) and PowerBI. Achieved forecast accuracy of 92% when validated against historical data through rigorous backtesting. Employed Monte Carlo simulation to quantify forecast uncertainty and assess the robustness of policy scenarios.

PROJECTS AND ACTIVITIES

BUILD UMass University Club Amherst, MA, USA

Role: Student Club - Product Manager Sept 2023 - May 2024

Led an 8-member Scrum team to build a responsive, user-friendly website using MongoDB, Express, React, Node.js. Designed donor workflows (recurring gifts, profiles) and responsive UI (Figma, Tailwind CSS). It significantly boosted donor engagement and contributed to raising $25K+ funds.

Comparative Study of Crystal Channeling in Carbon Nanotubes New Delhi, INDIA

Role: Individual Contributor Apr 2023 – Aug 2023

Designed a simulation pipeline using Python and Matplotlib to model particle trajectories through carbon nanotube arrays, validating predicted energy loss and scattering angles against published benchmarks. Placed 7th globally at the BL4S Challenge by CERN.

SKILLS

Python, Java, JavaScript (Node.js), SQL, NumPy, Pandas, scikit-learn, TensorFlow, PyTorch, GitHub, React, Express, Vector Database, Vector Embedding, RAG pipeline, NVIDIA NeMo