Aditya Maheshwari

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EDUCATION

University of Massachusetts Amherst, Amherst, MA　　　　　　　　Sep 2020 – May 2023
B.S. Computer Science and Mathematics (Statistics and Data Science)　　　　　Class of 2023
Distinctions: Commonwealth Honors Scholar, Dean's List, Chancellor's Award Scholarship　　**GPA: 3.97**

COURSEWORK

Machine Learning by Stanford, Algorithms, Artificial Intelligence, Search Engines, Programming Methodologies, Intro to Computation, System Principles, Data Structures, Scientific Computing, Statistics and Calculus, Financial Math

EXPERIENCE

Software Engineer Intern | PayPal | California, US (Remote)　　　　　　　June 2022 – Aug 2022
- Placeholder
- Placeholder
- Placeholder

Machine Learning Intern | TestAIng | Bangalore, India (Remote)　　　　　May 2021 – Aug 2021
- Collaborated with 2 interns to develop **2 machine learning pipelines** for enterprise's tools
- Developed pipeline for **time series data and complete concept drift system**, which reduces the error by 7%
- Implemented **4 local and 4 global explainability** methods to the pipeline to provide better model interpretability

Software Engineer Intern | Arevea. Inc | Remote　　　　　　　　　　　May 2021 – Aug 2021
- Developed an admin portal for a virtual event management business to handle events and schedules
- Implemented various secure **RESTful APIs** (Web services) like generation of **relational database** with schedule data and custom QR code scanner for events

Undergraduate Research Assistant | UMass CICS | Amherst, MA　　　　　Dec 2021 –Jan 2022
- Worked on A Systematic Evaluation of Causal Inference Algorithms Using Constructed Observational Data under the mentorship of Doctoral Student Pracheta using data analysis tool R.
- Implemented functions to generate and quantify complexity of synthetic non-linear data to evaluate algorithms

LEADERSHIP

Undergraduate Course Assistant | CICS UMass | Amherst, MA　　　　　Feb 2021 – Dec 2022
- Course/ teaching assistant for **CS 446, Search Engines** (Fall 22) and **CS256, Physical Computing** (Spring 22)
- Worked closely with the professor by **designing and grading** exams, labs, and in-class exercises
- Helped students with their **lab** assignments and **final project** submissions, and **answer queries** on online forum

Software Developer | BUILD UMass | Amherst, MA　　　　　　　　　　Sep 2021 – Mar 2022
- Provide non-profits, startups, and businesses with web and mobile applications through pro-bono engagements

Secretary | UMass ACM ML Club | Amherst, MA　　　　　　　　　　　Sep 2021 – Mar 2022
- Planning social and academic events, seminars, semester projects, coffee with professors (Meet and Greet) to make the ML club more interesting and engaging

PROJECTS

Admin Portal | Angular, Node.js, Express, MySQL, TypeScript　　　　　　　　June 2021
- Developed a web application that allows admin to create, edit, delete events and categories
- Added feature that allows the user to upload excel with schedule details and generate a relational database
- Implemented a QR Code Scanner which can scan custom QRCodes for the events

Hospital Locator | Svelte, HTML & CSS, JavaScript, Node.js, MongoDB　　　November 2020
- Developed a web application that allows users to find hospitals nearby (location-based search) at Hack UMass
- Added a backend service which can store the hospital's coordinates, availability of beds, etc

Interpreter, Finite State Machine, and Data Structures | Java, JavaScript　　　January 2021
- Implemented an interpreter a small fragment of JS, Non-Definite Finite State machines with memorization
- Implemented multiple data structures and algorithms over the course of 4 months in CS 187 at UMass Amherst

SKILLS

- **Programming:**　　JavaScript, Java, C, HTML/CSS, Python, SQL, Git, MongoDB, React, Angular, Express, Node
- **Developer Tools:**　　VS Code, Google Cloud Platform, AWS, Android Studio