Yash Srivastava

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Education:

Master of Science - Computer Science **2022-present**

Dartmouth College, Hanover GPA: 4.0

Relevant coursework: Artificial Intelligence, Data Science for Health, Database Systems, Machine Learning and Statistical Analysis, Deep Learning, Computer Vision Expected graduation: **12-2023**

Technical Skills:

- C | C++ | Java | Python | JavaScript | HTML | CSS | MySQL | OOP | Lambda Functions | CI/CD | Hbase
- Node | Express | Spring boot | JUnit | Django | OpenCV | GIT | Grafana | AWS | GCP | Redis | Mongo

Work Experience:

Research Assistant - Prof. Yaoqing Yang in colab w Mahoney Lab(UC Berkeley) **03/2023-present**

- Working on visualizing high-dimensional loss functions
- Studying the different phases in model learning and understanding relationships of local and global metrics

Teaching Assistant - Bayesian Statistical Modeling and Computation **01/2023-03/2023**

- Worked along with the Professor for grading and creating solutions to problem sets.
- Cleared doubts of students to improve their direction of approach in the subject.

Software Development Engineer - Meesho (meesho.com) **07/2021 - 08/2022**

- Designed & implemented large scale cross-pod features catering to 20 Mil daily active users.
- Improved the lag in the async DB writes as a part of DB optimization tasks.
- Developed lambda functions and its setup to serve the requests from AWS lambda type Target Group.
- Owned the meesho product over web backend service.
- Automated the task of creating slack groups with the respective team's oncalls which was used by 10 other teams making it easy to connect to required POC.

Software Development Intern - (RoadToNaukri - iona.ai) **06/2020 - 08/2020**

- Designed face-recognition module recognizing faces from the documents and live video using OpenCV.
- Developed the preprocessing module for the document-engine which improved text extraction by 20%.

Projects:

Image-based virtual trial room:

Designed a GAN-based model to generate an image of the customer wearing the target clothing. It's a generative model that takes two images as input; a person's image and a target cloth image. Model generates the image of the user with target cloth. This gives customers a virtual trial experience to get a real feel of cloth at home which may reduce unnecessary returns.

Pothole Prediction Model:

Designed an AI model to predict the potholes on the road using the accelerometer and gyroscope readings from an android phone. Model takes into account vibrations along z-axis and speed changes. Developed a java app for data collection of reading from android phone.

Research and Publications:

S. Pandey, **Y. Srivastava**, Y. Meena and R. K. Dewang, "**CLOTON: A GAN based approach for Clothing Try-On**," 2021 8th International Conference on Signal Processing and Integrated Networks (SPIN), 2021, pp. 595-601, doi:10.1109/SPIN52536.2021.9565973.

Achievements and Positions of Responsibility:

- Secured 1st Positon in the Chess AI tournament at Dartmouth College
- Citation in Artificial Intelligence and Ethics Course at Dartmouth College
- Runner up DevJam, Web Development Competition hosted by Hacker Rank