Adarsh Srivastava

adarsh.srivastava@u.nus.edu · +65 9175 6726 · linkedin.com/in/adrshsrvstv/

Education

National University of Singapore — Singapore
Master of Computing, Artificial Intelligence Specialisation — Aug 2022 - Present

Birla Institute of Technology & Science, Pilani - Goa Campus — Goa, India
B.E. (Hons.), Computer Science — 2014 - 2018

Experience

PayPal — Bangalore, India
Software Engineer II — Jul 2018 - Aug 2021
As a backend engineer with the core payments services team, working on India and other emerging markets:

- Led the 3DS2.0 cross-doman integration project for the Japan market. This allowed merchants to reduce fraud related losses on card transactions.
- Owned the end to end changes in Financial Reference Data domain for introducing India's homegrown Rupay card scheme into PayPal, enabling millions of Rupay cardholders to use the platform.
- Worked on key core payments services and batch applications for the Emerging Markets team, centered around transaction routing and 3DS processing.

PayPal — Chennai, India
Software Engineering Intern — Jan 2018 - June 2018
As an intern with the compliance team working for the India market:

- Explored ways to automate the KYC (Know Your Customer) verification for merchants - including using givernment APIs, text recognition on document images, etc.
- Wrote a Spring Batch in Java to periodically validate merchant tax IDs through an external API, as part of merchant onboarding process.

CSIR-Central Electronics Engineering Research Institute — Pilani, India
Research Intern — May 2016 - July 2016

- Trained an ML model to classify facial expressions based on camera input, as an assistive technology for the visually challenged
- Used MATLAB, OpenCV and libSVM to extract features and train an SVM model.

Projects

Autonomous Vehicle Navigation in Duckietown *python, pytorch, Duckietown Simulator*
The project aimed to help an autonomous Duck navigate the roads of Duckietown with a rudimentary map and coarse GPS to identify and reach a goal building. The project involved recognizing lanes, building and hand tuning a low level controller module, as well as high level planning over the map to reach the goal tile, and then object detection to recognize the goal building and getting close to it without violating traffic rules. Implemented offline RL, PID controller, lane markers detection, object detection.

Flair prediction for Reddit posts *pytorch, python*
Used 200MB of posts data collected from reddit to train a neural network to classify the posts into any of the several allowed flairs, given a subreddit. Tried various available networks like GRU and LSTM. Also experimented with zero shot prediction from post and flair text using BERT LLM.

Skills

Languages:	Python, Java, C++
Research experience:	Currently pursuing a Master's thesis on the application of generative models in robotics.
Courses taken in NUS:	Neural Networks, Intelligent Robots, Uncertainty Modelling in AI, AI Planning & Decision Making, Knowledge Discovery & Data Mining

Awards

National Talent Search (NTSE) Scholar — NCERT, Government of India
Awarded annually to top 1000 students all over India at school level, chosen through two levels of MCQ tests and one interview. — 2009