Adarsh Srivastava

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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 *GPA: 8.1* — 2014 - 2018

Experience

PayPal — Bangalore, India
Software Engineer II — Jul 2018 - Aug 2021

- Lead engineer on the 3DS2.0 integration project for Japan market which allowed merchants to reduce fraud related losses.
- Owned the end to end changes in Financial Reference Data domain for introducing India's homegrown Rupay card scheme into PayPal.
- Worked on several core payments backend services and batch applications for the Emerging Markets team.

BITS Pilani CS department — Goa, India
TA for Principles of Programming Languages — Aug 2017 - Dec 2017

- Took lectures on tail recursion, binding in languages, and pub/sub pattern. Prepared assignments and exams for students.

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.

Skills

Languages:	Python, Java, C++, MATLAB
Relevant Libraries/Frameworks:	pytorch, scikit-learn, Spring, Hibernate, Habitat AI
Courses taken in NUS:	Neural Networks and Deep Learning, Uncertainty Modelling in AI, Knowledge Discovery & Data Mining, Intelligent robots, AI Planning

Projects

Facial Expression Classification System *MATLAB, OpenCV, libSVM*
github.com/adrshsrvstv/CEERI-PS1
Trained an ML model to classify any face detected in an image into one of 7 emotions. Used HOG and LBP for feature extraction, SVM for training. Achieved a 10-CV accuracy of 99.7% and test set accuracy of 97%. Learned how to preprocess data, perform feature and model selection, feature reduction, and the algorithms behind these.

Vendor Neutrality Verification in Brokered Cloud systems *Java, Cloudsim*
Hybrid cloud systems are being increasingly used to increase resiliency. This project aimed to find ways to verify the fairness of hybrid cloud brokers (e.g. Databricks) towards respective cloud service providers (e.g. AWS). I implemented the algorithms in Java and set up the simulated hybrid cloud using CloudSim. Came up with various fairness and unfairness strategies to test the robustness of the fairness algorithm.

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