Adarsh Srivastava

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Education

BITS Pilani K K Birla Goa Campus — Goa, India
B.E. (Hons.) Computer Science *GPA: 8.1* — August 2014 - Jun 2018

Lucknow Public College — Lucknow, India
ISC PCM+CS *GPA: 93.2%* — - 2013

Lucknow Public College — Lucknow, India
ICSE Science+CS *GPA: 96.4%* — - 2011

Work Experience

PayPal — Chennai, India
Software Engineer — August, 2018 | Present

- As part of the India Product Development team, wrote a batch application to send out ad-hoc emails to customers. Written in Java on Spring.

PayPal — Chennai, India
Software Engineering Intern — January, 2018 | June, 2018

- Worked with the India PD team on researching how to automate KYC for India. This involved real time validation of Personal and Business account details, such as business identity and business address, and creating demos for the same, which formed base for more concrete discussions around the product. Demos were created using Django.
- Also wrote a batch application to validate merchant GSTINs periodically with an external service. Written in Java, using Spring and Hibernate

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

- Built a facial expression classification system. (Description under College Projects)

Skills

Languages:	Java, C++, C, Python, MATLAB (long long ago)
Frameworks/Tools worked with:	Spring, Maven, Hibernate,
Other nice stuff I've worked on:	CloudSim (Cloud simulator). Acquainted with Hadoop, Mesos, Qemu.

College Projects

Augmented Reality Workspace using Oculus Rift and Unity3D *Unity3D, OculusRift SDK*
Created an application that would bring active windows in your PC into the Oculus virtual space around your laptop screen, just like having a multiple screen workspace. User could reposition and orient windows using the Oculus Touch controllers.

Vendor Neutrality Verification in Brokered Cloud systems *Java, CloudSim*
Project aimed to verify that in a brokered cloud system, the cloud broker is fair towards all of the cloud suppliers when allocating VMs. I implemented and tested the performance of various algorithms.

Sign Language Classification System *Python, scikit-learn*
Built a classifier that detects a hand in an image and classifies the gesture into one of the 26 ASL alphabets. Trained an SVM binary classifier to detect hand, and a Random Forest multi-class classifier to recognise gestures. Learned how to handle different scales, using sliding window for object detection, and some aspects of model and feature selection.

Facial Expression Classification System *MATLAB, OpenCV, libSVM*
github.com/adarsh0112/CEERI-PS1
Project 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.

Awards

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