SHUBHAM CHAUDHARY

tel:+919803333464 \diamond mail:work@shubhamchaudhary.in \diamond skype:shubhamchaudhary.in \diamond linkedin Last Updated: 10th December, 2017

PUBLICATIONS

Review Highlights: Opinion Mining on Reviews

IML17. ACM

A. Kushwaha & S. Chaudhary

October 2017, Liverpool United Kingdom

A hybrid model for rule selection in aspect extraction. Reduce the aspect extraction noise of syntactic rule approach by using a multi-label classifier to select syntactic rules based on the sentence POS structure.

DOI: 10.1145/3109761.3158385

Bus Boarding Event Detection using Smartphone Sensors

COMSNET16, IEEE

S. Chaudhary, T. Kaur, N. Aggarwal, B. Raman, D. Bansal, K.K. Ramakrishnan

January 2016

A machine learning model for on body bus boarding activity detection using low power mobile device sensors — accelerometer & GSM location.

DOI: 10.1109/COMSNETS.2016.7439930

EXPERIENCE

Zomato

March 2016 to present

Gurgaon, India

Lead Software Developer, Machine Learning

- \cdot Developed a recommendation system using factorization machine. Dockerized the model and provided gRPC apis to handle production load. Deployed the models using Elastic Beanstalk.
- · Developed an image aesthetic quality scoring model by creating ensemble of linear and deep learning models. Wrote fisher vector implementation from scratch for linear model and created a spatial pyramid pooling layer for deep learning model. Fully dockerized this model for production deployment [2 months]
- · Built a deep learning model based on alexnet trained on in-house dataset to classify images uploaded on Zomato into food, ambiance, menu & human category. Built apis to allow multiple products to utilize the model. Built robust data pipeline to classify images from multiple sources. [3 months]
- · Generated review highlights using Natural Language Processing, with a test coverage of 75%+. Deployed web apps on a new subdomain behind an ELB. Automated the entire production process using Ansible. Published a research paper in ACM on a hybrid model for rule selection in aspect extraction. [6 months]
- · Developed new scalable user credibility and restaurant rating algorithm [1 month]
- · Developed a scalable review spam detection algorithm using tfidf, cosine distance, mini-batch kmeans clustering, gensim etc. [2 months]
- · Developed the common base module to support other ML projects by wrapping services like redis, mysql, etc.

Zomato

July 2015 to March 2016

Gurgaon, India

Software Developer, Android

- · Handled entire Zomato For Business Android (working end to end api to apps)
- · Published 20+ releases of Business app (including complete makeover in terms of design)
- · Spearheaded optimisations for the core modules used in all Android apps (HTTP, serialisation, caching, etc.)
- · Optimized network layer, resulting in 30% overall speed improvement
- · Reduced cold start time in Android apps by 300%
- · Reduced size of Business app by $\sim 40\%$
- · Increased product robustness by putting additional focus on unit tests (junit/robolectric)
- · Introduced automated functional tests for faster releases (espresso)
- · Introduced and setup continuous integration for multiple Android teams (daily builds with jenkins)
- · Reduced 70+ man hours from every release with tests and automation
- · Handled backend apis for Business apps

Thought Works Inc.

Jan 2015 to May 2015

Intern, Application Developer

Gurgaon, India

- · Worked on a healthcare industry project for a company that builds Disinfection Robots
- · Developed an Android application which controls the functioning of Disinfection Robots.

- · Created REST API to interact with other third party systems.
- Worked on a web based system which takes care of all the hospital management functionalities, client management functionalities, robot management functionalities, etc.
- · Optimized heroku deployment, reducing build time from minutes to seconds

IIT Bombay May 2014 to Jan 2015 Intern, CARTS Mumbai. India

- Created a machine learning algorithm to automate the detection of a public transport boarding event using accelerometer sensor data under ITRA, Govt. of India sponsored project CARTS during summer internship.
- · Developed an Android application based on the research gathered to detect the bus boarding event.
- · Published the research paper in COMSNET conference.

2014 to Present **Develop Freedom** Founder qithub.com/DevelopFreedom

Established an open-source organisation to help college students develop quality products using test-driven developement and continuous intergration

Peplet Inc. 2014 to 2014 CEOPeplet.com

Managed a team of four software engineers to develop Android applications focused to increase productivity by automating monotonous chores with help of artificial intelligence

Google Code-In Mentor

2013 to 2014

GoogleSan Francisco Bay Area

· Supervised 4 students during Google Code-In 2013 assisting through the patch review/submission process.

Software Developer

2013 to 2014

 $KDE \ e. V.$ Berlin, Germany

- · Worked on Music Device Synchronization feature in JuK music manager as an intern under SoK (KDE GSoC)
- · KDE Project Manager for Juk Music Manager website juk.kde.org and submitted patches to KDevelop an IDE.

TECHNICAL SKILLS

Python, Java, Android, C, C++, Shell Scripting, Php, Matlab, Latex Computer Languages Softwares & Frameworks Pandas, Numpy, Scipy, Sklearn, keras, theano, nltk, Flask, nosetests, tox IntelliJ, Android Studio, Debuggers, Memory Profilers, Mockito, PowerMock Redis, MySql, Boto, Aws, Spots, supervisor, nginx **Technologies** Git, CI, CD, Make, Qt, CMake, Agile, TDD, Machine Learning, AI, Aws, Spots

EDUCATION

UIET, Panjab University, Chandigarh

June 2015 CGPA: 7.34

March 2010

B.E. in Computer Science & Engineering

Apex Public School, Fatehabad, Haryana CBSE, 12th

Percentage: 76%

Daffodils Public School, Fatehabad, Haryana

March 2008 Percentage: 86%

CBSE, 10th

ACTIVITIES AND HONORS

HONORS:

Google APAC Codejam, Google, 2014: Ranked 464 among 5000 participants all over the globe. CodeJam is a programming contest held by Google.

ICPC Asia Regional Finals Participant, ACM, 2013: Represented UIET in the most reputed ACM-ICPC International Collegiate Programming Contest Asia Regional Finals.

Aspiration 2020 College topper, *Infosys*, 2013: Represented UIET in the state level DC final at Infosys development centre in Chandigarh after topping college level programming contest solving 4/4 problems.

Winner: C-Code Cracker, Technical Committee, UIET, Panjab University, 2012: Topped the Technical Committee event for 1st and 2nd year students by scoring 5/5 problems.

ACTIVITIES:

Github: Being an enthusiastic github user, I work actively on multiple side projects. I have 40+ public repositories available at github.com/shubhamchaudhary

PyPi Modules: I have authored 10+ python modules to Python Package Index. Source code for these is open sourced on Github.

Android Applications: I have couple of open sourced Android applications available on Google Play Store Develop Freedom account

VOLUNTEER

Speaker 2014
KDE e.V. Gandhinagar, Gujarat

 \cdot Elucidated the development of kde-multimedia in the biggest developer conference of KDE in India.

Tutor/Team Leader 2013 to 2014

- · Managed a team of size 10 to organize DFF sponsored two day workshop for new FOSS developers
- · Co-founded a programming community to foster competitive programming in college. Tutored DS and Algorithms.