ASHWIN PATIL

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Education

Maharashtra Institute of Technology College of Engineering — *Pune, India*

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE AND ENGINEERING, CGPA: 8.96 / 10.0 — *2016 — PRESENT*

- **City International School, Pune**, 12th — 87.2% — *2015*
- **Rustomjie International, Jalgaon**, 10th — 9.4 CGPA — *2013*

Skills

Languages Python, C/C++, Java, Ruby, JavaScript, MySQL, MongoDB, PHP
Frameworks Tensorflow, Keras, Django, Angular
Tools Git, Docker, Kubernetes, AWS

Experience

GoComet — *Mumbai, India*

SOFTWARE DEVELOPER INTERN — *June 2019 - October 2019*

- Working on Ruby on Rails as backend, ReactJS for frontend, MongoDB as database, Amazon Web Services for hosting, Jenkins for Continuous Integration, Docker for Containers and Kubernetes for managing the Containers.
- Worked on various tracking, crawling and scraping modules using various microservices and crons. Designed backend and database for the modules.

Projects

Neural Code Search

WHEN DEEP LEARNING MEETS CODE — *August 2019 - Present*

- Developed a code retrieval tool that fetches ranked code snippets in any programming language from natural language queries on large public code corpus like GitHub using Deep Neural Networks.

Epidemic Monitor

SMART INDIA HACKATHON 2019 — THERMO FISHER SCIENTIFIC — *March 2019*

- Grand Finalist at Smart India Hackathon 2019 where our team was one of the top 4 finalists for a complex problem statement from Thermo Fisher Scientific which had north of 700 submissions from all over India.
- Implemented a Geographic Information System for real-time epidemic mapping, real-time alerts and projection model to predict the spread of the disease.

Automator

ANDROID APPLICATION — *August 2018*

- Automator makes it possible to have an event-driven, connected world and makes it possible to integrate individual applications to maximize usage and save time.
- The application has various modules which works by various triggers to perform an action which can be individually and remotely activated.

Tensorflow Lite — Object Detection / Image Classification

RUBY ON RAILS APPLICATION — *December 2018*

- Camera app that continuously detects objects in the frames seen by camera, using quantized MobileNet SSD model trained on the COCO dataset.

Research

Large-Scale Study of Curiosity-Driven Learning

REINFORCEMENT LEARNING — *March 2019*

- Study of curiosity as a type of intrinsic reward function which uses prediction error as reward signal instead of environment rewards that are extrinsic to the agent.

Certifications

Deep Learning Specialization

DEEPLEARNING.AI / COURSERA — *March 2020*

- 5-Course Specialization - Neural Networks and Deep Learning, Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization, Structuring Machine Learning Projects, Convolutional Neural Networks and Sequence Models