ABHISHAKE KUMAR BOJJA

abhishekbojja9@gmail.com
250-885-2990
Victoria, B.C, Canada
abojja9
abojja9

A disciplined and highly motivated computer science graduate with a curious mind and appetite for learning. I have three years of academic and professional experience in revealing hidden insights from data and making useful decisions. I am passionate about machine learning, computer vision and software development.

Skills

LANGUAGES
Python
Java Script
SQL
R
C

TOOLS/LIBRARIES
Flask
PyTorch
Tensorflow
Docker
Keras
PySpark
Numpy
Pandas
Scikit-Learn
Git
Anaconda
Amazon Web Services
Scikit-Learn
Fastai
Hadoop
Google Cloud Platform

TECHNICAL
Machine Learning
Full Stack Web Development
Deep Learning
Time Series Analysis
Computer Vision
Natural Language Processing

OPERATING SYSTEMS
Ubuntu
Mac OSX
Windows

Education

University of Victoria — Sept. 2017 to Current
M.Sc Computer Science 2019
CGPA- 8/9

Indian Institute of Technology, Dhanbad — Aug. 2011 to May 2015
B.Tech Electronics and Communication Engineering 2015
CGPA - 8.68/10

Employment

University of Victoria — Victoria, Canada
Research Assistant, Visual Computing Lab. — Sept. 2017 to Current

- Developing algorithms for domain adaptation of semantic segmentation of hands using Generative Adversarial Networks (GANs).
- HandSeg: Developed and open-sourced a large scale dataset containing 200k annotated depth images and deep-learning architectures for hand segmentation. Used SVM based color segmentation techniques to create automatic annotations. Our final model achieves an accuracy of 88% with an inference time of 5 milliseconds/frame on a Nvidia GTX 980 Ti GPU. *Technologies used*: Tensorflow, Python, OpenCV.

Motion Metrics International — Vancouver, Canada
Machine Learning Engineer Intern — May 2019 to Aug. 2019

Designed and Developed an end-to-end Deep-Learning based computer vision pipeline to remove shadows from images caused due to varying illumination conditions. The ***Shadow Removal*** algorithm I developed has improved the company's existing algorithms performance by 100% and is ready for deployment in production. *Technologies used*: PyTorch, Python, OpenCV, Docker.

Coal India Limited — India
Management Trainee — July 2015 to July 2017

Administration of the database server and part of a team that involved in the design of physical database schema, data modeling, and performance tuning. I was part of a research team working on building an Explosive Recommender System, that helps optimize blasting operation to attain production efficiency in coal mines.

Projects

Flack - Real Time Online Messenger Application — Sept. 2019 to Sept. 2019

- Developed an online messaging service using Flask, similar in spirit to Slack. Users can sign in and create or join an existing chatroom, and once a channel is selected, users can communicate in real-time, with the help of WebSockets. The service is deployed on Heroku.
- *Technologies:* Python, Flask, JavaScript, MySQL, Heroku

Facial Keypoint detection — May 2018 to May 2018

- Developed a Facial keypoint detection system by training a neural network on Youtube Faces dataset. The system detects the face and identifies 68 facial keypoints.
- *Technologies*: PyTorch, OpenCV, Python.

Movie Recommender System — Feb. 2018 to Apr. 2018

- Studied and implemented algorithms to predict user ratings for a new movie based on his past ratings for other films using the MovieLens dataset, which contains 100K ratings given by 671 users for about 9,125 movies.
- Evaluated different algorithms on this dataset using root mean square error (RMSE) as a measure and achieved 0.91 on our method.
- *Technologies*: Keras, Pandas, Numpy, Python.

Awards

University of Victoria · Graduate Award — Mar. 2018
University of Victoria · Fellowship — Fall 2017
IIT (ISM), Dhanbad · Merit Cum Means Scholarship — Aug. 2011
Awarded for 4 consecutive years for excellent academic performance