ADITYA KULKARNI

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github.com/BeardedAmbivert
Available Summer 2020

EDUCATION

Stevens Institute of Technology, Hoboken, NJ **Expected May 2021**
Master of Science in Computer Science
Coursework: Algorithms, Deep Learning, Introduction to Text Mining/Statistical NLP, Introduction to Quantum Computing, Web Programming

Ramnarain Ruia Autonomous College, Mumbai, India **June 2019**
Master of Science in Computer Science
Coursework: Machine Learning, Introduction to Robotics, Cyber Security

V.E.S College of Arts, Science and Commerce, Mumbai, India **Aug 2017**
Bachelor of Science in Information Technology

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, Node.JS, C++, Java, R
Supporting Libraries: Keras, TensorFlow2.0, NumPy, Pandas, Matplotlib, PyTorch, OpenCV, Scikit-learn, NodeJS, ReactJS
Database and Software: MongoDB, MySQL, Firebase, PyCharm, VSCode, Anaconda, Jupyter
Operating Systems: Windows 10, Linux (Ubuntu 18.04 LTS)
Certifications: Machine Learning Advanced Nanodegree, Udacity 18; Introduction, CNN in TensorFlow, Coursera 19

ACADEMIC / PERSONAL PROJECTS

Stevens Institute of Technology, Hoboken, NJ
Humpback Whale Identification **Nov - Dec 2019**

- Implemented a convolution neural network from scratch using Python 3.7 and TensorFlow 2.0 aiming to solve object identification problem by predicting whales based on their tails
- Pre-processed the images leveraging Scikit-learn, TensorFlow and Pandas.
- Trained and tested the model on NVIDIA GTX 1060 achieving an accuracy of 74% on the test set

Expense Tracking Application **Nov - Dec 2019**

- Led a team of 4 to build a web app using NodeJS and mongo dB which is geared towards solving expense management
- Created a platform for users to track their expenses and split them with other users, add recurring expenses and check the expense trends on dashboard

Ramnarain Ruia Autonomous College, Mumbai, India
Face Verification System **Sep - Oct 2018**

- Developed a Deep Learning model trained on VGGFace dataset using Python3.6 and Keras by applying transfer learning
- Utilized OpenCV's haar-cascade algorithm for face detection and tracking in real-time and cosine similarity for feature matching
- Provided an interface to add faces to database and run real time face identification

Facial Key point Detection (Personal) **Dec 2018**

- Created multiple CNN models from scratch which placed markers on facial key points (mouth, eyes, nose, eyebrows) solving object detection problem
- Pre-processed images using Pandas and Numpy and plotted them using Matplotlib
- Trained multiple models demonstrating various approaches like data augmentation, applying dropout and achieving a public score of 3.16 and private score of 3.09 and ranked in top 75 of leaderboard

EXPERIENCE

Invizio Solutions LLP, Mumbai, India **Feb - Apr 2019**
Android Developer Intern

- Created a cart module with an on-device database ObjectBox and re-designed the app homepage to improve navigation
- Performed functional, peer to peer and API testing of the product and drafted a detailed report for the same

Instinct Media, Mumbai, India **Apr - May 2016**
PHP Developer Intern

- Assisted the development team to build a content management system for a client
- Maintained 2 live websites by adding/updating information, maps locations with addresses and social media links