Los Angeles, CA
jainadit@usc.edu

Aditya Jain
https://adityajain.me

github.com/adityajn105
hub.docker.com/u/adityajn105
Primary Language : Python

EDUCATION

- **Master of Science (Computer Science)** — Jan 2021 -
  USC Viterbi School of Engineering; Los Angeles, CA - 90007

- **Bachelor of Engineering (Computer Science)** — June 2018
  Maharashtra Institute of Technology, Affl. University of Pune; India — ***Aggregate: 74.0%***

PROGRAMMING SKILLS

- **Languages**: Python, Java, C++, C, Javascript, SQL, HTML
- **Databases**: MySql, MongoDb
- **Tools and Frameworks**: Tensorflow-Keras, scikit-learn, pandas, Git, Docker, tensorflow-serving, gRPC

EXPERIENCE

- **Cognizant Technology Solutions** — Bangalore, India
  Data Scientist - Full time — *Sep 2018 - Dec 2020*
  - **Search-ad click prediction**
    * Researched on various NLP techniques to improve the ad click through rate of existing system by 10%.
    * Worked on knowledge distillation to train CLSM (Convolutional Latent Semantic Model) using BERT Base.
    * Deployed CLSM model using tf-serving over gRPC for improving query response time to 5 ms.
    * **Technologies used** : Python, Tensorflow-Keras, C++, tf-serving, docker, gRPC, scikit-learn, etc.
  - **Medicare Star Analytics (Healthcare)**
    * Developed analytical and ML models that assist customers' marketing team in identifying the right and influential population for various outreach programs to improve the overall STAR rating of the Medicare plans.
    * Built ML models probability of patient's health decline (bladder issues, mental/physical health decline, etc) using his/her medical records. Achieved .75 AUC score using gradient boosting on decision trees.
    * **Technologies used** : Python, scikit-learn, pandas, numpy, matplotlib, seaborn, etc.

- **Heelium Sports Pvt. Ltd.** — Pune, India
  Mean Stack Developer - Intern — *April 2017 - July 2017*
  - Built administrative dashboard to manage product listing, offer listing, etc on company's website.
  - **Technologies used :** Javascript, Node.js, Express.js and MongoDb.

PERSONAL PROJECTS - *Link*

- **Kinship detection using faces :** Used VGG-Facenet to generate face embedding and trained a siamese network architecuture to get kinship probability. Achieved 79.2 AUC in Kaggle test dataset. *Link*
- **Image Caption Webapp :** Implemented 'merge' architecture for generating image caption from the paper "What is the Role of Recurrent Neural Networks (RNNs) in an Image Caption Generator?" *Link*
- **NER/POS Tagging Webapp :** Trained an LSTM based seq2seq model to tag all words of the paragraph to their Named Entity or Part of Speech. Used Flask and docker to deploy the model. *Link*
- **Flappy Bird RL Agent :** Trained a Reinforcement Learning agent using Deep Q-Learning on a Double Dueling Network Architecture with Prioritized Experience Replay to play Flappy Bird Game. *Link*

AWARDS, LEADERSHIP AND EXTRA-CURRICULAR

- Achieved runner-up position among over 300 teams nationwide in Smart India Hackathon 2017 for developing a bio-metric student authentication system using android device.
- Selected as one of the top 8 finalist among 100 participants in Infosys Techzooka 2016 to present a application which shows discounted price for grocery nearby a user.
- Helped in organizing and lectured in a national level event called "Linuxication" for 3 consecutive years 2016, 2017 and 2018 where we taught new undergraduate students about Linux.
- Volunteer in Cognizant Outreach Program for "Animal Care" and "Save the environment Campaign" b/w 2018 to 2020.