Aditya Jain
https://adityajain.me

🏠 Los Angeles, CA
📞 +1 (323) 986-9260
✈ jainadit@usc.edu

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

EDUCATION

- **Master of Science (Computer Science)** — Jan 2021 - Present
  University of Southern California, Los Angeles, CA

- **Bachelor of Engineering (Computer Science)** — Aug 2014 - Jun 2018
  Maharashtra Institute of Technology, University of Pune; India — **Aggregate: 74.0%**

TECHNICAL 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 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 to assist customers' marketing team in identifying right and influential population for various outreach programs to improve overall STAR rating of the Medicare plans.
    * Built ML models to get probability of patient's health decline (bladder issues, mental/physical health decline, etc) leveraging 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 — Apr 2017 - Jul 2017
  - Built administrative dashboard to manage product listing, offer listing, etc on company's website.
  - **Technologies used :** Javascript, Node.js, Express.js and MongoDb.

PROJECTS - *Link*

- **Kinship detection using faces :** Used VGG-Facenet to generate face embedding and trained a siamese network architecture to get kinship probability. Achieved 79.2 AUC in Kaggle test dataset. *Link*
- **Image Caption Web App :** 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 Web App :** Trained an LSTM based seq2seq model to tag all words of paragraph to their Named Entity or Part of Speech. Deployed model using Flask and docker. *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*

LEADERSHIP AND INVOLVEMENT

- Secured runner-up position among over 300 teams nationwide in Smart India Hackathon 2017 for developing a bio-metric student authentication system for android devices.
- 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.