Aditya Jain

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Github : adityajn105
Dockerhub : adityajn105
Languages : Python, C++, Java, SQL

Education

- **Maharashtra Institute of Technology** — Pune, India
  Affl. University of Pune; B.E. in Computer Science; ***Aggregate: 74.0%*** — *August 2014 - June 2018*
- **Vidya Bhumi Public School** — Chhindwara, India
  Central Board of Secondary Education; H.S.C; ***Aggregate 89.2%*** — *April 2011 - March 2013*

Experience

- **Cognizant Technology Solutions** — Bengaluru, India
  Data Scientist - Full time — *Sep 2018 - Present*
  - **Search-ad click prediction**
    - Researched on various NLP techniques to improve the ad click prediction accuracy of existing system by 10%.
    - Built CLSM (Convolutional Latent Semantic Model) to calculate relevance between query and ad document.
    - Deployed CLSM model using tf-serving and gRPC for improving query response time to 5 ms.
    - **Technologies used** : Tensorflow-Keras, C++, tf-serving, docker, gRPC, scikit-learn, pandas, numpy, 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.
    - Worked on calculating 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 — *March 2017 - June 2017*
  - **Back-end Developer**
    - 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 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 App** 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.