Aditya Chandupatla

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EDUCATION

- **University of Southern California** — Los Angeles, CA
  M.S. in Computer Science. Focus: Data Science — *Aug. 2019 – Present*

- **Jawaharlal Nehru Technological University Hyderabad** — Telangana, India
  B.Tech in Computer Science and Engineering - 88.09% Gold Medalist — *Sep. 2013 – Jun. 2017*

EXPERIENCE

- **Teradata** — Hyderabad, Telangana
  Software Engineer — *Jul. 2017 – Dec. 2018*
  - **Analytics**: Worked on micro-services architecture for automating data migration between two databases. Involved in the extraction and development of feature set for time estimation task. Employed regression techniques to build the model and achieved an accuracy of 89%. Built the infrastructure for error detection module, which analyses logs from several services and pushes error messages to the state-machines for performing analytics and root-cause analysis.
  - **Tensorflow**: Integrated Google's distributed 'Tensorflow,' a deep-learning framework, into Teradata with the help of table-operators to provide the end user with the capabilities to run analytical queries right within the database.
  - **GPU**: Implemented a POC to accelerate database aggregation operations using GPU (NVIDIA GeForce GTX 1070). Achieved a performance boost of up to 3X on a dataset containing 32 million records.

- **VMware** — Bengaluru, Karnataka
  Intern - IT — *Jan. 2017 – Jul. 2017*
  - **Full-stack Web Development**: Increased productivity, and accelerated deployment time, of the team by developing a dashboard to provide a unified view of a plethora of microservices. Using the dashboard, one can perform REST calls, interact with SOAP web-services, compare configuration files, build versions and track the health of the services.

- **Hedgehog Lab** — Hyderabad, Telangana
  Android Developer Intern — *May. 2016 – Jul. 2016*
  - **BeHungry App**: Worked on an instant-food-delivery mobile application. Implemented custom combo feature and re-designed the checkout screen functionality from scratch. Worked on Activities, Broadcast receivers and Services components of the Android system.

TECHNICAL SKILLS

- **Languages**: Python, C/C++, Java, R, JavaScript
- **Analytics**: Tensorflow, Numpy, Keras, Spark, Hadoop, Computer Vision, NLP

HONORS AND AWARDS

- **Night On The Town (NOTT) Award**: Performance bonus award for making much appreciated 'above and beyond' contribution to Teradata from C. Jaiprakash, Engineering Manager and Raj Cherabuddi, VP & GM of Teradata India.
- **Best outgoing student of B.Tech CSE**: Awarded Best outgoing student gold medal, and Dr. D Seetha Mahalaxmi Endowment Medal for my stellar academic performance by Prof. A. Venugopal Reddy, the Vice chancellor of JNTUH, and the chief guest, Prof. V. Ramgopal Rao, director of IIT Delhi.
- **Programming Competitions**: Ranked 992 in the ACM International Collegiate Programming Contest (ICPC) - Asia Amritapuri Regional Round. Stood 1st in Code Quest and Jumbled Code programming contests conducted by the Computer science department of Osmania University, as part of their annual level technical fest 'Infinity 2016.'

SELECTED PROJECTS

- **Neural Style Transfer**: Generating novel artistic images by applying transfer learning on a pre-built VGG-19 network. This project is developed from the paper published by Gatys et al
- **Debiasing Word Vectors**: GloVe word embeddings are explored for gender bias and a debiasing operation is performed to eliminate the bias. Vocabulary size: 400,000 words
- **Dimensionality Reduction**: Applied PCA to perform dimensionality reduction and reduced the size of the dataset by 10 times. Dataset experimented on: Human faces, and Cats & Dogs
- **Artificial Music Generation**: A deeplearning model that uses RNN with LSTM units to generate Jazz music