Manas Bundele

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EDUCATION

UNIVERSITY OF TEXAS AT DALLAS | **MS in Computer Science** **Expected May 2020**
Thesis: Image Caption Generation (ongoing)
Advisor: Dr. Jessica Ouyang

INDIAN INSTITUTE OF TECHNOLOGY, JODHPUR | **B.Tech. in Computer Science & Engineering** **May 2016**

SKILLS

Proficient: C • C++ • Ruby on Rails • Python •Postgresql

Familiar: Scala • Javascript •Matlab •SQL •LaTeX•HTML • CSS

Tools & Utilities: Tensorflow • Big Data ecosystems (Hadoop, MapReduce, Spark, Kafka, NoSQL systems) • AWS • Git

WORK EXPERIENCE

UT DALLAS COMPUTER SCIENCE DEPARTMENT | **CS Grader [Part-time]** **Aug 2018 - May 2019**

- Graded the tests, quizzes and assignments of a batch of 75 undergraduate students for the course Discrete Mathematics
- Got nominated for the 'Best Grader' Award in the department

VOYLLA FASHIONS PVT. LTD., JAIPUR | **Software Engineer** **May 2016 - Jun 2017**

- Project LP Boost: Designed and implemented an algorithm that increased revenue of the company many fold and was probably the first such advanced implementation in the company
- Project Solidus: Voylla Website Upgradation (Team of Eight developers) and Data Migration.
  - Key member of the team of four, involved in developing website's order pipeline.
  - Handled data migration, a very critical aspect of the project which could only be totally tested in production environment

PROJECTS

FAKE OPINION DETECTION | **Dr. Anurag Nagar** **July 2019**

- Developed a supervised learning model using Pyspark and MLlib that was able to detect fake reviews in YelpNYC dataset
- Consisted of various pre-processing and feature engineering techniques, solved the class imbalance problem

CONVOLUTIONAL NEURAL NETWORK DESIGN FOR MODIFIED MNIST | **Dr. Haim Schweitzer** **April 2019**

- Implemented a residual network using Tensorflow in Python and included batch normalization, non-linearities, dropout, l2 regularization to improve accuracy and reduce overfitting
- Achieved over 90% accuracy in 4 & 1/2 min on testing data of 10k images with modified different random training datasets of 6k images of size 7*7

INTERACTIVE MEDICAL IMAGE SEGMENTATION & 3D VISUALISATION | **B.Tech project** **Jul 2015 - May 2016**
| Guide: Dr. Chiranjoy Chattopadhyay & Dr. Gaurav Harit

- Developed a semi-automated segmentation technique for efficient image analysis for 3D visualisation as well as image guided surgery at reduced costs and minimized expert intervention
- Got nominated for the Best B.Tech. Project Award, one of the 3 projects nominated in the entire batch of 2016

PUBLICATION

- Pratik Kalshetti, Manas Bundele, Parag Rahangdale, Dinesh Jangra, Chiranjoy Chattopadhyay, Gaurav Harit and Abhay Elhence; "An Interactive Medical Image Segmentation Framework Using Iterative Refinement", Computers in Biology and Medicine, February 2017, pp. 22-33.

SELECT POSITIONS OF RESPONSIBILITY

ASSISTANT CO-ORDINATOR, COUNSELING SERVICE | **IIT Jodhpur** **Mar 2014 – Apr 2015**
HEAD, PUBLICITY AND MEDIA, VARCHAS'14 | **IIT Jodhpur** **Sep 2013 – Feb 2014**

RECENT ACADEMIC ACHIEVEMENT

- Jonsson School $1000 Graduate Study Scholarship Recipient (2018-19)
- Journal Publication honored with "Meritorious" status in Honored papers 2017, Computers in Biology and Medicine (2018), doi: 10.1016/j.compbiomed.2018.05.020