Nischal Mahaveer Chand

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EDUCATION

NORTHEASTERN UNIVERSITY, Boston, MA
College of Computer and Information Science, GPA: 3.75/4.0 — Sept. 2017 - present
Candidate for Master of Science in Data Science — Expected graduation: June 2019
Related Courses: Supervised Machine Learning, Unsupervised Machine Learning and Data Mining,
Information Visualization, Natural Language Processing, Statistics for Bioinformatics

ALLIANCE UNIVERSITY, Bengaluru, India
College of Engineering and Design, CGPA: 3.4/4.0 — Aug. 2013 - June 2017
Bachelor of Technology in Computer Science Engineering
Related Courses: Data Mining and Data Warehousing, Big Data Analytics, Design and Analysis of Algorithms
Activities: Coordinator of CodeWars, Member of DevMetric, Member of Linux Club

TECHNICAL KNOWLEDGE

Languages:	R, Python, C, C++, Java, SQL
Libraries/Packages:	tidyverse, ggplot2, kableExtra, pandas, scikit-learn, NLTK, matplotlib, TensorFlow, Theano, PyTorch
Tools and IDEs:	git, Docker, Weka Explorer, Tableau, RStudio, Docker, Jupyter Lab, IPython Notebook
Markup Languages:	LaTeX, RMarkdown, Markdown, HTML, XML, JSON

WORK EXPERIENCE

Marcus Institute for Aging Research, Hebrew SeniorLife, Roslindale, MA — July 2018 - Dec 2018
Junior Data Scientist
- *shinyMRI:* Created a R Shiny module for interactive viewing of MRI images within R Shiny applications.
- *AD Supplement:* Study to explore connections between Cerebrovascular mechanisms and Alzheimer's related dementia. Used tidyverse in R to perform regression analysis and visualization. Results were communicated to researchers.
- *Smartphone project:* Analyse accelerometer and gyroscope data collected from smartphones while performing several walking tasks to find relations between gait patterns and metal health, using R, Shiny, and tidyverse.

untrodden labs, Delhi, India — Aug. 2016
R&D Intern
- Developed chatbot in Python using NLTK, for basic user interaction like weather reporting and reading daily news.
- Tested and debugged speech recognition modules using Google Speech Recognition API in Python.

ACADEMIC PROJECTS

NL2code - Natural Language to code generator — Jan. - Apr. 2017
Northeastern University, Boston, MA
- Created a neural machine translation system to convert single line comments to code in Python using Theano and TensorFlow. The final model achieved a BLEU score of 74.3, an improvement over our Base model score of 73.2 .

Flashlight - Property Assessment Visualization for the City of Boston — Oct. - Dec. 2017
Northeastern University, Boston, MA
- Created Shiny Application that helps users visualize various aspects of property assessment values in different regions of Boston, using R for data visualization and interactive dashboard, along with Python for data cleaning and data transformation.

Movie Recommendation System — Feb. - June 2017
Alliance University, Bengaluru, India
- Implemented a Recurrent Neural Network using TensorFlow in Python to recommend movies to a user. By analysing the sequence of movies reviewed, we were able to achieve high scores both in accuracy and peer review.

PERSONAL PROJECTS

Ames Housing Price Prediction — Oct. - Dec. 2016
- Created regression models in Scikit-Learn and neural models in TensorFlow to predict housing prices in Python.
- Best submission one of top 20% on Kaggle public leaderboard.

HONORS AND ACHIEVEMENTS

- Coordinated and organized CodeWars, a 24-hour hackathon as part of university fest at Alliance University.   Oct. 2015
- Awarded Karnataka state scholarship, covering 70% tuition fee for undergraduate study at Alliance University.   2013 - 2017