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: Algorithms, Introduction to Data Management and Processing,
  Unsupervised Machine Learning and Data Mining, 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, Weka Explorer, Tableau, RStudio, Docker, Jupyter Lab, IPython Notebook
Markup Languages:	LaTeX, RMarkdown, Markdown, HTML, XML, JSON

WORK EXPERIENCE

Institute for Aging Research, Hebrew SeniorLife, Roslindale, MA   July 2018 - present
Junior Data Scientist
- *shinyMRI:* Created a R Shiny module package to enable easy viewing 3D and 4D MRI images in R Shiny applications.
- *AD Supplement:* Study to explore connections between Cerebrovascular mechanisms and Alzheimer's related dementia, used R and tidyverse to perform regression analysis and ggplot2 to visualize interesting relations.
- *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 from 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
- Designed, implemented, and tested a multi-layered Recurrent Neural Network to recommend movies to a user using TensorFlow and Scikit-Learn, in Python, by analysing the sequence in which the users have rated the movies.

PERSONAL PROJECTS

Ames Housing Price Prediction   Oct. - Dec. 2016
- Designed, developed, and tested advanced regression models in Python using the scikit-learn package in a team of 2.
- Final model in top 20% on Kaggle.

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