

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: Dec. 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
Markup Languages:	LaTeX, RMarkdown, Markdown, HTML, XML

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 mental 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