

# Nischal Mahaveer Chand

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## WORK EXPERIENCE

**BERG LLC**, Framingham, MA

Nov 2019 - present

*Data Scientist*

- Collaborate with internal and external teams to understand requirements and implement data solutions.
- Present scientific results, communicate bottlenecks, and propose future work to key stakeholders.
- Build data processing and ingestion pipelines for longitudinal data spanning several years.
- Perform statistical analysis on high-throughput and high-dimensional multi-omic data.
- QC result and prepare tables/figures for publication and external presentations.
- Maintain and improve internal Shiny dashboards used for data aggregation and report generation.

**Marcus Institute for Aging Research**, Hebrew SeniorLife, Roslindale, MA

July 2018 - Dec 2018

*Junior Data Scientist / Co-op Student*

- *AD Supplement*: - Performed regression analysis and hypothesis testing on clinical trials data using R and SQL.  
- Actively communicated results to directors and researchers.
- *Smartphone Lab*: - Built data processing pipelines for time-series sensor data using R and SQL.  
- Improved data processing speeds by 13% and cut licensing costs.
- *shinyMRI*: - Built scalable R shiny application and modules to visualize 3D and 4D MRI images.  
- Application received honorable mention by RStudio, Inc.

## EDUCATION

**NORTHEASTERN UNIVERSITY**, Boston, MA

Khoury College of Computer Sciences, GPA: 3.79/4.0

Sept 2017 - Aug 2019

*Master of Science in Data Science*

Related Courses: Supervised Machine Learning; Unsupervised Machine Learning and Data Mining;

Data Visualization; Natural Language Processing; Statistics for Bioinformatics; Algorithms

Achievements: - Founding member of the Khoury Data Science Hub

- Selected speaker for GradTech Day tech talk

- Presenter at Northeastern University Visualization Consortium (NUVis)

**ALLIANCE UNIVERSITY**, Bengaluru, India

2013 - 2017

*Bachelor of Technology in Computer Science Engineering*

Related Courses: Data Mining and Data Warehousing; Big Data Analytics; Design and Analysis of Algorithms

## TECHNICAL KNOWLEDGE

**Languages:** R (proficient), Python (proficient), SQL (intermediate), HTML/JavaScript (intermediate), Java (experienced)  
**Python Related:** NumPy, Pandas, Matplotlib, Scikit-learn, SciPy, TensorFlow, XGBoost, PyTorch, Keras, NLTK, Plotly  
**R Related:** dplyr, ggplot2, leaflet, caret, tidyverse, shiny, kableExtra, RMarkdown  
**Other Tools:** git, Docker, flask, MySQL, RStudio, Jupyter Notebook, AWS

## RELEVANT PROJECTS

**CardinalVis** - Dynamic data visualization for Mass Spectrometry Imaging (MSI) experiments

May 2019 - Aug 2019

Tools: R, shiny, git

- Created R shiny dashboard and modules in R.
- Application is open-sourced and intended to cut down research times in MSI experiment research.

**MURA** - Bone X-ray image classification and data visualization project

Jan 2019 - Apr 2019

Tools: Python, PyTorch, torchvision, git, scikit-learn, D3.js, Flask, XGBoost

- Trained and tuned several classification models using sklearn and PyTorch in Python.
- Obtained best models for each classified using Cohen's Kappa metric.
- Created RESTful API service to provide real-time classification and dynamic visualizations using Flask-RESTful in Python.
- Deployed application, models, and visualization to AWS EC2 instance.

**NL2code** - Natural Language to Python code generator

Jan 2018 - Apr 2018

Tools: Python, TensorFlow, Theano, NLTK, BeautifulSoup, git

- Scraped open-source Python repositories to gather training data using BeautifulSoup in Python.
- Trained custom neural translation system using Theano in Python.
- Improved accuracy and BLUE score over base paper.