

# Nischal Mahaveer Chand

Somerville, MA | [nischal.bhatewara@gmail.com](mailto:nischal.bhatewara@gmail.com) | (857) 277-9145  
GitHub: DarkestFloyd | LinkedIn: nischalmc | Blog: [medium.com/@darkestfloyd](https://medium.com/@darkestfloyd)

## WORK EXPERIENCE

**BERG LLC**, Framingham, MA Nov 2019 - present  
*Data Scientist*

- Assist clinical teams in biomarker discovery by applying statistical analysis and hypothesis testing methods in R.
- Build neural networks models to optimize running time and precision of internal AI platform - bAlcis® - using keras.
- Build R Shiny dashboards to provide key metrics and overview of internal processes and data stores.
- Build pipelines to gather data and perform quality checks to prepare data for further analysis using tidyverse packages.
- Communicate findings and bottlenecks to external teams and management via presentations and written reports.
- Create visualizations of significant results for publications and posters using ggplot2 in R.

**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 upto 13%.
- *shinyMRI*: - Built scalable R shiny application to visualize 3D and 4D MRI images.  
- Improved diagnosis speed for in-house Alzheimer's research.  
- 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  
TA positions: Data Management in R (Spring 2019); Unsupervised Machine Learning (Summer 2019)

**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

## RELEVANT PROJECTS

**CardinalVis** - Dynamic data visualization for Mass Spectrometry Imaging (MSI) experiments May 2019 - Aug 2019  
*Project Repository*: <https://github.com/kuwisdelu/CardinalVis/>

- 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  
*Website*: <http://ec2-3-212-216-62.compute-1.amazonaws.com/>

- 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  
*Project Repository*: <https://github.com/darkestfloyd/NL2code>

- 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.

## HONORS AND ACHIEVEMENTS

- Panelist for Northeastern University UNCOVER COVID datathon. Sep 2020
- Presented *MURA visualization tool* at The Northeastern University Visualization Consortium. Apr 2019
- Honorable mention for *shinyMRI* by RStudio. Apr 2019
- Graduate speaker for TechTalks at Grad TechDay, Khoury College. Mar 2019
- Coordinated and organized CodeWars, a 24-hour hackathon as part of university fest at Alliance University. Oct 2015