Nischal Mahaveer Chand

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WORK EXPERIENCE

BERG LLC, Framingham, MA   Nov 2019 - present
Data Scientist
- Collaborate with clinical teams to discover biomarkers for diagnosis and therapeutics.
- Perform statistical data analysis on multidimensional omics data in R.
- Communicate findings and bottlenecks to external teams and upper management.
- Build and maintain automated data ingestion and data processing pipelines.
- Prepare tables/figures for publication and external presentations.
- Build and maintain internal packages and R Shiny dashboards for organizational use.

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
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, AWS
- 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.

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