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 findings and bottlenecks, and propose future work.
- Perform statistical analysis and data analysis on high-throughput multi-omic data.
- Build data processing and ingestion pipelines for longitudinal data spanning several years.
- 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, 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.