Bhavika Tekwani
btekwani@gmu.edu | Phone: 571-326-4698
github.com/bhavika| linkedin.com/in/bhavikatekwani

EDUCATION

George Mason University, Virginia August 2016 - May 2018
Master of Science, Computer Science
Relevant coursework: Theory & Applications of Data Mining, Data Mining on Multimedia Data, Pattern Recognition, Applied Statistics, Mining Massive Datasets

Fast.AI International Fellow - Deep Learning October 2017 - Present

University of Mumbai, India May 2010 - June 2014
Bachelor of Engineering, Computer Engineering

SKILLS

Languages: Python (3 years), Java (4+ years), SQL(4+ years), C++ (< 1 year), R (< 1 year)
Tools: Tableau, IPython, Weka, Docker, AWS(S3, EC2, EMR), Git, CI/CD (Travis, CircleCI), SAS, Redshift, Hadoop, Spark
Techniques: Clustering, classification, natural language processing, regression, matrix factorization
Libraries: scikit-learn, Numpy, Pandas, Scipy, GraphLab, matplotlib, seaborn, gensim
Beginner level knowledge of Torch, Tensorflow and Keras.

PROJECTS

Impressionist Artist Identification Using Deep Learning: Classifying Impressionist paintings from Wikiart based on the genre & artist using convolutional neural networks (CNNs) in Torch.
Quora Question Pairs: A Kaggle competition about detecting duplicate questions on Quora. Achieved a log loss of 0.324 on the leaderboard using an LSTM built with Keras and TensorFlow. Techniques: deep learning, fuzzy text matching, natural language processing
Music Mood Classification Using the Million Song Dataset: Used audio features and machine learning for mood analysis. Techniques: segment aggregation, XGBoost, Random Forest, Support Vector Machines
Scipy: I've made a few contributions to the open source library. The closed PRs are available here: bit.do/scipy-prs
Raven: An open-source CLI tool to manage your Spotify music library.

WORK EXPERIENCE

Software Engineer Intern- Data Science, Udacity, *Mountain View, CA* June 2017 - August 2017
- Improved organizational access to data by building a Slack bot with Flask and SQLAlchemy.
- Built an ETL system to migrate platform events to Amplitude for real-time analytics.
- Communicated insights about Udacity products after analyzing 300,000+ events.
- Built data pipelines using Apache Airflow.

GIS Programmer, George Mason University, *Fairfax, VA* August 2016 - present
- Developed George Mason University's OpenGeoportal using Java, Apache Solr, Python.
- Lead workshops on ArcGIS, QGIS, Python and CartoDB to train students and faculty.
- Assisted students with framing research questions and designing projects based around GIS and data analysis

Senior Software Engineer, Capgemini, *Mumbai, India* June 2014 - July 2016
- Developed features for forecasting, asset management and resource allocation in a web application using C# and ASP .NET.
- Developed a Java/J2EE product lifecycle management application for a Fortune 500 engineering client
- Built dashboards & reporting systems enabling management to access up-to-date data and aid decision making.
- Improved the performance of SQL stored procedures by 0.5-2x.
- Improved perceived page load performance on dashboards by 30%.
- Reduced page load speed by 6s for frequently accessed pages using caching mechanisms.
- Mentored and onboarded 2 junior engineers by training them on the technical and business aspects of the project.