Bhavika Tekwani

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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, Computer Vision

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

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: AWS(S3, EC2, EMR, RDS, Redshift, Lambda, Batch), Git, CI/CD (Travis, CircleCI), Hadoop, Spark, Tableau, IPython, Weka, Docker, Terraform
Libraries: scikit-learn, Numpy, Pandas, Scipy, GraphLab, matplotlib, seaborn, gensim, Torch, 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.
Urban Sound Classification: Implemented a research paper to classify environmental sounds from the UrbanSound8K dataset using CNNs in Keras.
Music Mood Classification Using the Million Song Dataset: Used audio features and machine learning for mood analysis. Techniques: segment aggregation, Random Forest, Support Vector Machines
Raven: An open-source CLI tool to manage your Spotify music library.

WORK EXPERIENCE

Data Engineer, Aurora Insight, *Washington, DC* July 2018 - present
- Building data pipelines handling growing volumes of data (100+ TB) from terrestrial & fixed sensors using Apache Airflow & other tools
- Responsible for driving the adoption of cloud solutions (AWS S3, Redshift, EC2, Batch, Lambda)
- Designing and implementing various data storage & access solutions using Apache Parquet, RDS, Redshift, S3.
- Working closely with data scientists to enable faster experiment cycles & productionizing of analyses.

GIS Programmer, George Mason University, *Fairfax, VA* August 2016 - May 2018
- 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.

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 to PMs after analyzing 300,000+ events.
- Built data pipelines using Apache Airflow.

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.
- Improved the performance of SQL stored procedures by 0.5-2x.
- Improved perceived page load performance on dashboards by 30%.
- Mentored and onboarded 2 junior engineers by training them on the technical and business aspects of the project.
- Developed a Java/J2EE product lifecycle management application for a Fortune 500 engineering client.