

Vinu Prasad Bhambore

vpb2@illinois.edu | (+1)217-721-9527 | <https://www.linkedin.com/in/vinubhambore/> | GitHub: vpb2

EDUCATION

University of Illinois at Urbana-Champaign, Illinois, USA

Aug 2018 - May 2020

MS in Information Management (GPA: 3.92/4)

Coursework: Methods for Data Science, Data Analysis & Statistical Models, Programming for Analytics & Data Processing, Data Visualization, Theory and practice of Data cleaning, Data Storytelling, Practical Health Data Analytics

Sri Jayachamarajendra College of Engineering, Mysuru, India

Aug 2011 - May 2015

BE in Computer Science and Engineering (GPA: 3.82/4)

SKILLS & CERTIFICATIONS

Programming Languages: R, Python (Scikit-learn, Pandas, Numpy, Statsmodels, Keras, TensorFlow, PySpark), C, VBA

Visualization Tools: Tableau, Matplotlib, Ggplot, Seaborn, Plotly, Bokeh, ipywidgets, ArcGIS

Databases: MySQL, MongoDB, PostgreSQL, Hive, SQLite

Others: Apache Spark, Google Cloud Platform, GitHub, Jupyter notebook, Bitbucket, Linux, OpenRefine, MS Excel, Jira, Zendesk, Confluence, Microsoft Azure, Sprinklr, Agile software development, Databricks

Certifications: Building and Deploying Deep Learning Applications with TensorFlow, Analyzing Big Data with Hive, Apache Spark Essential Training, Building Deep Learning Applications with Keras 2.0, Statistics Foundations: 1 & 2

PROFESSIONAL EXPERIENCE

Data Scientist, Internship, Motorola Solutions, USA

Feb 2020 - May 2020

- Built python scripts to automate extraction of stateful information from event logs of Land Mobile Radios (ATIA data)
- Designed a PostgreSQL database to store extracted data & developed queries to fetch call activity analytics
- Generated interactive visualization dashboards using Bokeh and ipywidgets for anomaly detection
- Devised Time-Series forecasting models to flag anomalies and predict future call activity to optimize resource allocation

Graduate Research Assistant, National Center for Supercomputing Applications, USA

May 2019 - May 2020

- Developed supervised and unsupervised Machine Learning models for ongoing Research Projects sponsored by the National Science Foundation
- Performed data validation, exploratory data analysis & built supervised models for predicting West Nile Virus incidence
- Implemented python scripts for data collection, data cleaning and Hyperparameter tuning to optimize the accuracy and loss in the training procedure
- Created a SQL database to host the genome data for variant mining and designed visualization dashboards using Tableau for Mayo Clinic's Grand Challenge 2019
- Programmed scripts for benchmarking of genome variant calling software on a high-performance computing cluster
- Produced and maintained documentation for modeling codes, contributed material to manuscript and grant preparation
- Facilitated projects for NCSA Genomics team as a Technical Project Manager over summer 2019

Graduate Research Assistant, Carl R. Woese Institute for Genomic Biology, USA

Mar 2019 - May 2019

- Performed data analysis for stomata count in corn leaf slides data set and recognized outliers and anomalies
- Identified and interpreted patterns of stomata in different genotypes helping identify next-generation corn strains that can grow in drought conditions

Senior Product Support Engineer, Sprinklr, India

Jul 2015 - Jul 2018

- Responsibilities included manipulation and extraction of data from SQL and MongoDB servers for troubleshooting
- Interpreted and resolved technical issues in advertising APIs by duplicating errors and raising bugs
- Managed service interruptions and known issues, keeping customers up to date at all times on incident progress, including coordinating a response, escalation, tracking, and analysis of incidents devising RCA
- Oversaw product stability with testing phases by conducting UAT and worked with the Product Management team on identifying scope for improvements and feature additions
- Took ownership of customer tickets and provided resolution within SLAs along with identifying escalated urgent issues, tracking and reporting on trends and thereby ensuring the platform to function normally
- Directed initial triage of all issue tickets, catering courteous responses, ensuring accuracy of ticket data and assigning of tickets to appropriate module for resolution
- Updated and managed technical documentation outlining process and procedures for both internal and client usage

ACADEMIC PROJECTS

Machine Learning - West Nile Virus incidence rate prediction | Python, R

Jan 2020 - May 2020

- Performed data cleaning using Python scripts and OpenRefine on large scale-multi dimensional data sets acquired from various data sources and prepared it for predictive modeling
- Validated data, conducted exploratory analysis and understood the outliers in the data and the relationship between various Socio-economic contributing to the outbreak of the virus and the incidence rate
- Created visualization dashboard using bokeh and plotly packages to understand the effect of different variables
- Implemented Vector Auto-Regression model for Data imputation of Socio-economic features for required years
- Built seasonal Auto-ARIMA, LSTM and Zero Inflated Poisson Regression models to forecast the outbreak pattern of virus