

# Jacinth David

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## Education

### UMass Amherst

Amherst MA, USA

MS in Computer Science,

Aug 2017–May 2019

- Concentration in Data Science
- Coursework: Machine Learning, Probabilistic Graphical Models, Neural Networks, Algorithms for Data Science, Cloud Computing and Systems for Data Science
- Neural Networks and Kernel methods like SVM on sklearn and numpy. Image processing using Deep Convolutional Neural Networks, Project on Keras and Tensorflow
- Graphical Models, Bayesian inference, MCMC and gibbs sampling, Variational inference
- MapReduce, Graph Analytics(Pregel/Giraph), Concurrency in java using events, threads and processes
- Scaling AWS instances based on automated allocation of web traffic

### NIT Nagpur

Nagpur MH, India

Bachelor of Technology in Electronics and Communication Engineering,

Aug 2010–Jun 2014

- Senior year project was on music creation by modelling it as a Markov chain in MATLAB

## Experience

### School of Public Health, UMass

Amherst MA, USA

R programmer

Feb 2018–Now

- Package creation and restructuring code for bayesian/statistical models built on R
- Applying software engineering principles to improve and refactor code

### Mu Sigma

Bangalore KA, India

Decision Scientist

Sep 2014–May 2016

- Awarded for excellent execution on a Web Dashboard for my client. The data pipeline processed and aggregated data from search logs. The dashboard had high impact because no tool had exposed so much data before in my client's organization
- Mined client's data for insights and predictions using machine learning and statistical analysis. My clients used the insights provided by me to solve their business problems in search and display advertising
- Automated tasks using SQL, R, VBA and powershell scripts. Saved more than 30 man-hours for my client using automated scripts
- I had access to Bing search logs, over 1500 PB for analysis and reporting. Hands on experience in working with large datasets
- Came up with hypotheses and tested them against data, apart from iterating on a task quickly and following the AGILE framework
- Experience in synthesizing vast amounts of information into an engaging narrative

## Skills

**Languages:** Proficient in Python, R and SQL. Comfortable on Java, Ubuntu Linux, Matlab and Git. Rudimentary familiarity with C++ and C. Familiar with the web stack - HTML, CSS, Javascript, REST API, Sockets

**Platforms:** Experience with NoSQL (Cassandra, Scope on top of COSMOS), AWS, Zookeeper, SQL Server stack (SSIS, SSRS), Hyper V, Power BI, Bash and PowerShell scripts, VBA and Excel

**ML and Statistics:** Regression: Linear, Logistic, Kernel, Time Series, Ridge and Lasso; Hypothesis testing: ANOVA, chi-square, t-tests; Naive Bayes and Maxent for Sentiment Analysis; Clustering, Nearest Neighbor; Dimensionality reduction using PCA; Visualization: ggplot, matplotlib; Scipy, numpy, roxygen