

# Jacinth David

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📄 www.jacinthd.github.io • Github - github.com/jacinthd

## Education

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### 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
- Bayesian probabilistic inference and Graphical Models
- MapReduce, Graph Analytics(Pregel/Giraph), Concurrency in java using Events, multiple 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 probabilistic music creation using MATLAB

## Experience

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### 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

### 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
- Came up with hypotheses and tested them against data, apart from iterating on a task quickly and following the AGILE framework
- I had access to Bing search logs, over 1500 PB for analysis and reporting. Hands on experience in working with large datasets
- Automated tasks using SQL, R, VBA and powershell scripts
- Experience in synthesizing vast amounts of information into an engaging narrative

## Skills

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**Languages:** Proficient in Python, R and SQL. Comfortable on Java, Ubuntu and Matlab. Used C++ and C in coursework

**Platforms:** Experience with NoSQL (Cassandra, Scope on top of COSMOS), Amazon EC2, Zookeeper, SQL Server and SQL Server Tools (SSIS, SSRS), Hyper V, Power BI, Bash and PowerShell scripts, VBA and Excel

**ML and Statistics:** Markov Chain Monte Carlo for bayesian inference, Logistic and Linear Regression, Generalised Linear Models, Hypothesis testing - ANOVA, chi-square, t-tests, Clustering, Nearest Neighbor, PCA, Numpy, Scipy, Scikit-learn, matplotlib, ggplot, roxygen