

Jacinth David

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Education

UMass Amherst

MS in Computer Science,

Amherst MA, USA

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, Deep Learning and Kernel methods like SVM on sklearn and numpy
- Image processing using Deep Convolutional Neural Networks
- Bayesian inference, MCMC and gibbs sampling, Variational inference, Bayesian and Markov networks
- Course project was on synthesizing videos conditioned on music using GANs and wavenet(dilated CNN) embeddings. Used both PyTorch and TensorFlow
- Concurrency in java using events, threads and processes
- Scaling AWS instances based on automated allocation of web traffic
- MapReduce, Graph Analytics(Pregel/Giraph)

NIT Nagpur

Bachelor of Technology in Electronics and Communication Engineering,

Nagpur MH, India

Aug 2010–Jun 2014

- Senior year project was on music creation using markov chains and additive synthesis in MATLAB

Experience

Embr Labs

Data and Web Backend Intern

Boston MA, USA

Jun 2018–Aug 2018

- Visualize data and create dashboards from data stored in BigQuery database
- Automate monthly mails summarizing usage to customers using python and smtp

School of Public Health, UMass

R programmer

Amherst MA, USA

Feb 2018–May 2018

- Package creation and restructuring code for bayesian and time series models built on R

Mu Sigma

Decision Scientist

Bangalore KA, India

Sep 2014–May 2016

- Awarded for excellent execution on a Web Dashboard and data pipeline for my client. The dashboard had high impact because no tool had exposed so much data from search logs and other sources
- Mined data for insights and predictions using machine learning and statistics. 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 with a single script.
- 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 a compact, engaging narrative

Skills

Languages: Proficient in Python, R and SQL. Comfortable on Java, Ubuntu Linux, Matlab and Git. Familiar with the web stack - HTML, CSS, Javascript, REST API, Sockets. Some exposure to C++, C and Functional Programming.

Platforms: Experience with NoSQL (Cassandra, Scope on top of COSMOS), AWS, Zookeeper, SQL Server stack (SSIS, SSAS, 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; Data Visualization: ggplot, matplotlib; Scipy, numpy, roxygen