

Objective – Seeking internship in the field of Data Science specializing in Machine Learning and Big Data Analytics

Education

- **Master of Science - Language Technologies Institute (School of Computer Science)** **Aug'16 - May'18 (Expected)**
Carnegie Mellon University, PA
- **Bachelors in Computer Engineering** **Aug'10 - May'14**
University of Pune, IN. Division: First Class with Distinction

Relevant Coursework

(*In Progress)

- Design & Analysis of Algorithm
- Machine Learning*
- Advanced Databases
- Theory of Computation
- Coding & Algorithm Bootcamp
- Big Data in Practice*

Technical Skills

	Proficient	Familiar
Core Languages:	C, Core Java, Visual Basic, Python	C++, R, Javascript, SAS, MATLAB
Databases:	Oracle 9i and 10g, MySQL	MS Access
Development/Productivity Tools:	Turbo C, Informatica Siperian, Excel, Anaconda, Eclipse, PyCharm	MS Visual Studio 2010 & 14, Jupyter Notebook

Academic Projects

- Project Intern** **Talencea Inc, Pittsburgh** **Oct '16 - Present**
- Working with a Pittsburgh based startup founded by LTI Director Dr. Jaime Carbonell.
 - 1st phase of project involves working on Big Data from different external sources like client and social media platforms and building Skill Repository.
 - 2nd Phase includes building a cognitive model which matches candidates with appropriate job openings.
 - Data Munging activities include Data Cleanup, Indexing, Classification, Redundancy Removal & etc.
- Image classification to classify proteins into subcellular localization patterns (CMU)** **Aug'16 - Dec'16**
- Built an Active Learning Framework containing Pool Based Data Access Model, Uncertainty based Querying Strategy and different base learners like SVM, Gaussian NB, KNN and Logistic Regression
 - Accuracy score of 0.97 was achieved on test data using SVM as base learner.
 - **Tool Used: Spyder, Python (sklearn, NumPy, matplotlib, SciPy)**
- Using Probabilistic Graphical Model to forecast Stock Prices for Time Series data (CMU)** **Aug'16 - Nov'16**
- Transformed into stationary time series by using log space for removing unequal variances and difference to handle trend component.
 - Checked stationarity using Dickey-Fuller Test (Apple, MS, Hecla, NEM Mining, GM, Ford)
 - Created precision matrix using transformed features and marginalized Precision Matrix for missing data.
 - Conclusively was able to predict with minimal error rate the stock prices for Apple by using only 3 days worth of data and stock prices for companies MS, Hecla, NEM.
 - **Tool Used: Spyder, Python (NumPy, SciPy)**
- Linear and Forward Stagewise Regression on unknown Dataset (Carnegie Mellon University)** **Aug'16 - Nov'16**
- Implemented Linear and Forward Stagewise Regression from scratch.
 - Implemented Feature transformation like One Hot Encoding and Polynomial Feature transformation.
 - Cross validated different train and test dataset combination to get optimized weights for each features.
 - **Tools Used: Jupyter, Python (NumPy, SciPy)**
- Load Balancer for OpenFlow compliant SDN architecture (Sponsored by GS Labs Pvt. Ltd)** **July '13 - Jun '14**
- Aimed at enhancing s/w load-balancer in distributing traffic based on server capacity by adding generic flows.
 - Based on paper "OpenFlow-based server load balancing gone wild" published in ACM Hot ICE'11 conference.
 - R. Oswal et. al. "A Survey of Past, Present and Future of Software Defined Networking"
 - **Tools Used - Mininet with POX controller, OpenVswitch and OpenFlow protocol**

Business Operation Associate	ZS Associates Inc.	Sept'14 – June'16
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| Summer Intern | Softkoash Solutions Pvt. Ltd | May '12 – July '12 |
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- ### Co-curricular Activities

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