

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 (CGPA – 3.3)
- **Bachelors in Computer Engineering** Aug'10 - May'14
University of Pune, IN. Division: First Class with Distinction

Relevant Coursework

(*In Progress)

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

Technical Skills

	Proficient	Familiar
Core Languages:	C, Core Java, Visual Basic, Python, PL/SQL	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 (Carnegie Mellon University) 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
- Used SelectKBest algorithm for feature selection.
- Accuracy score of 0.97 was achieved on test data using SVM as base learner.
- **Tool Used: Spyder, Python (sklearn, NumPy, matplotlib, SciPy)**

Stock Price Prediction using Probabilistic Graphical Model (Carnegie Mellon University) Aug'16 - Nov'16

- Feature transformed stock prices into a log space for previous 5 days for each stock price of 6 companies (Apple, MS, Hecla, NEM Mining, GM, Ford)
- Created precision matrix using transformed features. 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 Dummy Coding 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**

Paper Presentation “A Cloud Framework for Parameter Sweeping Data Mining Application” Jan ’13 – Feb ’13

- Explained the system framework i.e. its architecture and execution mechanism of how parameter sweeping could be achieved in data mining application
- Finally, concluded by showing a performance evaluation w.r.t clustering & classification algorithms

Professional Experience

Business Operation Associate ZS Associates Inc. Sept’14 – June’16

- **Master Data Management - Role (Data Steward)**
 - Automated processes like loading client data and QCing client deliverable and performed Ad-hoc analysis.
 - Automation of Processes to reduce response time for file processing by over 80%
 - **Technologies Used – Python, MS Excel, VBA, Informatica Siperian, PL/SQL**
- **Smart Data Quality Management – (Quest ’15) 24hr – Hackathon (Oct’15)**
 - Participated & won in Quest’15 organized by ZS Associates which had 44 participating teams.
 - Created the architecture of product detailing communication between different modules.
 - Implemented an algorithm for “Thomson Tau Method of Outlier detection” to detect outliers
 - **Technologies Used – R, MS Excel, VBA and MS Access**

Summer Intern Softkoash Solutions Pvt. Ltd May ’12 – July ’12

- Implemented Microsoft’s NerdDinner project as a POC
- Fixed bugs and made changes to proprietary ERP Solution used by customers in production.
- **Technologies Used – C#, Microsoft’s .NET Framework, HTML, CSS and JavaScript**

Co-curricular Activities

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- Won in Quest ’15 (Hackathon at ZS Associates India Office)
 - 2nd Best Project - PICT’s “Impetus & Conceptus’14”
 - 2nd Prize in College TechFest Event ‘Network Raptors’
 - Best Project in Operations Excellence (ZS Associate Global Offices)