

Employment

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| Research Assistant Epistasis Detection in Genome | Binghamton University | Summer 2017; Fall 2017 |
| <ul style="list-style-type: none">Designed and coded neural networks on common fly genome data to find gene(s) responsible for particular trait and to find epistasis in fly.Implemented Feed Neural Network, Random forest. | | |
| Teaching Assistant | Binghamton University | Spring 2017; Fall 2017 |
| <ul style="list-style-type: none">Course: Advanced Topics in OOP.Created testing platform being used at Binghamton University to grade assignments at submission. | | |
| Senior Software Developer | Amdocs, Pune, India | July 2012 - July 2016 |
| <ul style="list-style-type: none">Worked on billing product in Agile Scrum using TDD approach. The product was used by Telefonica, Argentina, Peru and Chile.Designed, coded and tested various taxation, online charging, discount engine processes and daemons in C++, SQL, XML. Quality of code eventually reduced regression time by ~20% and increased team revenue by ~4%.Led a Scrum team of 5 people in designing, developing and delivering planned items. The number of defects dropped by 38% for development items led by me.Worked on-site at Telefonica, Argentina Office at Buenos Aires for 3 months on Production environment. I was instrumental in solving defects and improving performance of the system. | | |

Education

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| Binghamton, NY | Binghamton University | Fall 2016 – May 2018 (Expected) |
| <ul style="list-style-type: none">M.S. in Computer Science, May 2018. GPA: 4.0Coursework: Advanced Topics in OOP, Introduction to Machine Learning, Operating Systems, Algorithms, Systems Programming, Regression I.Online Courses: Probabilistic Graphical Models - I on Coursera offered by Stanford University. | | |
| Pune, India | Pune University | Aug. 2008 – May 2012 |
| <ul style="list-style-type: none">B.E. in Computer Science, May 2012. First class with DistinctionCoursework: Neural Networks, Artificial Intelligence, Data Structures, Embedded Systems, Algorithms. | | |

Technical Experience

Projects

- Pump It Up - Data Mining the water table** (2017): Analyzed data from various Tanzania and Nigeria water points to predict factors affecting availability of water in water point. This was an online competition hosted by DrivenData. I implemented XGBoost, Random Forest, Feed Forward Network for this. My rank in competition was 2nd among 3647 teams. Python, TensorFlow, Keras.
- Anomaly Detection In Water Flow** (2017): Implemented RNN, LSTM to detect irregular flow in water aimed at finding leakage in water pipes. Python, TensorFlow, Keras.
- Bayes Nets for Genetic Inheritance** (2017): Implemented Bayesian Network to predict few phenotypes based on family genetic inheritance model. Matlab.
- Malloc Utility Implementation** (2017): Implemented malloc like utility using sbrk system call. C.
- C++ Standard Library Map Implementation** (2016): Implemented Standard template library std::map with skiplist data structure. The Map was capable of De-randomization, Locality and dynamic height. C++.
- Sanjaya: India Narrates** (2012): Aim of this research project was to convert vernacular books into audio format using crowdsourcing and various NLP/Speech utilities. Developed a website for the Crowd Sourcing part; implemented Speech Processing algorithms. Python.

Additional Experience and Awards

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- Dr. A.K. Pathak Award (Apr. 2012)**: Awarded for best and innovative final year project, out of 84 projects.
 - Top Contributor of Project**: Got award for exceptional contribution in project at Amdocs, Pune.

Languages and Technologies

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- C++; C; R; Python; SQL; XML; TensorFlow; Keras; Git; Perforce; Weka