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AAKASH PYDI

Computer Science

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EDUCATION

West Lafayette, IN **Purdue University** **Spring 2013 – Fall 2018**

- Bachelor of Science (B. Sc) in Computer Science (Concentration in Machine Intelligence), Dec 2018.
  Cumulative GPA: 3.49 | Major GPA: 3.92
- Relevant Coursework:
  Machine Intelligence: · Data Mining & Machine Learning (A) · Web Information Search & Management (A) · Information Systems (A+) · Deep Learning (A-) · Applied Regression Analysis (A)
  CS Core: · Analysis of Algorithms (A-) · Data Structures & Algorithms (A-) · Systems Programming (A+) · Programming in C (A) · Computer Architecture (A) · Objected Oriented Programming (A+)
  Math: · Calculus I & II & III (A+, A+, A+) · Linear Algebra (A) · Intro Statistics (A+) · Probability Theory (A)

TECHNICAL EXPERIENCE

Projects

- **Using a Generative Adversarial Network to Create Novel Artistic Images** (2018). Used a Generative Adversarial Network to create artistic images that captured the style of two Indian artists. Python, Pytorch
- **Real Time Classification Video Stream** (2018). A video stream that classifies images in the stream in real time using a LeNet5 convolutional neural network trained on the CIFAR100 Dataset. Python, Pytorch
- **Twitter Auto-completer for Members of Congress** (2018) Used Twitter API & the DocNow hydrator to create a custom dataset (1.5 mil tweets from 2017 US Congress). Used GenSim to generate custom word2vec representations and subsequently used a Keras LSTM model to auto-complete tweets. Keras, GenSim, Python
- **Novel Framework for Sentence Classification** (2017). Replicated the key results from the paper, "A Novel Two-stage Framework for Extracting Opinionated Sentences from News Articles" (Pujari, Desai, Ganguly, Goyal). Used a combination of the Naïve Bayes classifier and the Hyperlink Induced Topic Search (HITS) algorithm to carry out fact/opinion classification of the sentences in the given corpus. Java
- **Classic ML Library Functions and Algorithms Implementations** (2017-2018). Implemented (1) K-Means Clustering (2) Agglomerative Clustering (3) Decision Trees (three variants with no pruning, max-depth and reduced error pruning) (4) Perceptron model (5) Naïve Bayes model (6) 2D convolution (7) Feed Forward Neural Network (8) Neural Network Backpropagation and Stochastic Gradient Descent. Python
- **To-Do, Stopwatch, Countdown, Weather-Check ReactJS Applications** (2016). Developed simple ReactJS applications using Firebase, Redux libraries, ExpectJS assertions, Google/Facebook/Github API. ReactJS, CSS
- **SafeWalk and RideShare Android Applications** (2015). The SafeWalk app had an intuitive GUI that optimally connected students in need of an escort on the Purdue campus, and SafeWalk volunteers. The RideShare app allowed students to make shared travel plans starting or ending at Purdue. Java, SQL, MVC Framework

AWARDS

- **Purdue University College of Science Scholarship Award.**
- **Purdue University Computer Science Department Scholarship Award**.
- **First Place, CS180 Android Application Dev. Competition:** Awarded 1st place out of ~60 projects.

LANGUAGES AND TECHNOLOGIES

- Most Experienced with Java & Python; Some Experience with C++ & C & SQL & PL/SQL & JavaScript & CSS;
- PyTorch; Keras; GenSim; Galago Toolkit; ReactJS & Redux; Android Dev;

ADDITIONAL EXPERIENCE

- President, Student Think Tank for India & Purdue Economics Association · Member, Special Interest Group for AI · Member, Purdue Cricket Club · Volunteer, Indiana Veterans Home & Hannah Community Center.