**SHUBHAM GONDANE**

**Cell: 480-278-5069 linkedin.com/in/shubhamgondane**

**Email: sgondane@asu.edu**  **Github: ShubhamGondane**

**OBJECTIVE**

To research and build AI systems that are useful, robust, scalable and deployable in the real world.

**EDUCATION**

* Master of Science in Computer Science **GPA 3.8**

Arizona State University, Tempe, AZ Fall 2017 - current

* Bachelor of Technology in Computer Engineering **GPA 3.5**

Vishwakarma Institute of Technology, Pune, India August 2013 - May 2017

**TECHNICAL SKILLS**

* Programming: Python, SQL, Java, C, Bash.
* Frameworks and tools: Mongo DB, AWS, Google cloud.

**RELEVANT COURSEWORK**

* Data structures and Algorithms, Multimedia and web databases, Distributed database systems, Semantic web mining, Natural language processing, Data mining, Business Intelligence and Analytics.

**EXPERIENCE**

**CIS Research Aide 02/2019 – current**

**Arizona State University**

* Deliver Developed models to calculate similarity between posts from reddit subreddits using Tf-Idf, Latent Semantic Indexing (LSI) and Latent Dirichlet Allocation (LDA).
* Currently working on build statistical models to measure creativity among reddit users.

**Research Aide at Institute of Social Science Research** **07/2018 – 09/2018**

**Arizona State University**

* Working on a research project to understand what factors affect the career outcomes of an engineering student.
* Implemented python scripts for data collection by crawling web pages. Automated the scraping using Selenium.
* Developed scripts for cleaning, normalizing and filtering the data.
* Developed regression models to work with the ranking data of different engineering schools.

**ACADEMIC PROJECTS**

**Co-reference resolution in Electronic Health Records 02/2018 – 04/2018**

* Designed a model to find co referring concepts in medical reports using natural language processing.
* Designed a workflow to annotate concepts using of the shelf tools and libraries and form concept pairs
* Worked on leveraging feature engineering to extract meaningful features to work with an SVM classifier to identify valid co-referring pairs
* Developed an algorithm for combining the co-referent pairs into a valid co-referring chain.

**Geospatial Data Hotspot Analysis 02/2018 – 04/2018**

* Developed a distributed query engine using Hadoop Distributed File System to perform spatial operations - Range, Join, KNN using the spatial RDDs in GeoSpark.
* Worked on processing and analyzing NYC Yellow Taxi data set for identifying top 50 spatial hotspots using the Getis-Ord metric.
* Built a monitoring system to keep track of real time operational details of the cluster like – the CPU load, Network load and the memory usage under different configurations.

**Movie Recommender System 08/2017 – 11/2017**

* Developed an application using information retrieval and machine learning to recommend movies to the users.
* Designed models to find similarity between movies using Tf-Idf, probabilistic relevance feedback mechanism and dimensionality reduction models like SVD, PCA along with topic-based models like LDA.

**Image recognition as a Service on AWS 02/2018 – 04/2018**

* Developed an elastic application on AWS for image recognition using a deep learning model. Developed a PHP application to handle the end-user interaction.
* Developed java programs to interact and provide cross interaction between different AWS resources like EC2, S3, SQS and CloudWatch to handle the data flow.
* Implemented a load balancing algorithm to automatically scale in and out on demand and in a cost-effective manner. Reduced time overhead by 2 minutes by experimenting with instance metrics.

**CERTIFICATIONS**

* Deep Learning Specialization on Coursera. 12/2017 - 01/2018