

Shiva Narayan Chandrashekar

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SUMMARY

M.S., Computer Science Student with professional experience as a Data Analyst. Experience working with Java, Python and Database Management, seeking **Full-Time** opportunities in **May 2020**.

EDUCATION

Master of Computer Science 8/2018 - 5/2020
Arizona State University (ASU), Tempe, AZ GPA: 3.83/4

Bachelor of Engineering - Computer Science 8/2014 - 7/2018
College of Engineering Guindy (CEG), Chennai, India GPA: 8.07/10

TECHNICAL SKILLS and RELEVANT COURSES

Programming: Python, Java, C++, C

Application Software: React, MatLab, V-rep, ROS, Latex, Axure

Databases: MySQL, MongoDB, PostgreSQL

Web Technologies: PHP, JavaScript, C#, HTML, CSS, Node.js

ML/NLP packages: SciKit, Natural Language Toolkit (NLTK), Pandas, NumPy, SciPy, Keras, TensorFlow, Apache-Spark, Pytorch

Relevant Coursework: Planning and Learning in AI, Data Mining, Database Management Systems

PROFESSIONAL EXPERIENCE

Quantel AI, New York City: Data Science Intern 6/2019 - 8/2019

- Designed and developed an **Anomaly Detection System** to detect trading anomalies and illegal trading patterns.
- Used **Python and Apache Spark** to clean, pre-process and analyze the raw log files.
- Developed an **Ensemble model** for the **LightGBM framework** to identify the upper and lower bounds of the expected trend in the dataset.

HCL Technologies, Chennai, India: Web developer Intern 7/2017 - 12/2017

- Developed a web application using **PHP and MySQL** to dynamically notify employees about project assignments.
- Stored data using **MongoDB** and annotated the dataset to facilitate efficient retrieval.

ACADEMIC PROJECTS

ASU, Robot putting a ball in the hoop 1/2019 - 5/2019

- Designed the methodology to incorporate **Machine learning** in robots.
- Used a combination of **Deep-deterministic policy gradients** and behavior cloning to train in simulation.
- Optimized the algorithm using **Hindsight experience replay**, which reduced the training time considerably.

ASU, Activity Recognition 8/2018 - 4/2019

- Extracted the most **relevant features** based on the dataset (dataset from gyroscope).
- Significantly reduced the size of the extracted data by selecting only key features using **Principal component analysis**.
- Testing the classification of activities with performance measures that include **Precision and Recall**.
- Improving the model by using a combination of **Computer vision and CNN** to facilitate learning from videos.

CEG, Abstractive Summarizer 12/2017 - 4/2018

- Developed a summarizer that condensed a document into a **headline**.
- Used the Beam Search Algorithm coupled with **Encoder-Decoder Model(RNN)** to identify the main theme.
- Constructed the **RNN model** for the summarizer.

PUBLICATIONS

International Conference on Computer and Energy Science 2017, Split, Croatia 7/2017

- A.S. Rao, A.V. Sharma, **S.N. Chandrashekar**. *A Context-Aware System for an IOT based Smart Museum* (published in IEEE Xplore) [\[Link\]](#)

ACTIVITIES

Arizona State University, Tempe: Graduate Service Assistant 8/2019 - Present

- Set and graded assignments and homework for the course **Principles of Programming**.
- Scheduled weekly **office hours** to discuss the solutions to the assignments.