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MOUNIKA GANDAVARAPU

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EDUCATION

Master of Science in Computer Science Arizona State University Courses: Data Structures and Algorithms (CSE-310), Natural Language Processing (CSE-576), Fundamentals of Stat Learning (CSE-569)	May 2020 GPA: NA/4.0
Bachelor of Technology in Electronics and Communication Engineering Visvesvaraya National Institute of Technology Courses: Operating System, Computer Architecture, Image Processing	July 2012 - April 2016 GPA: 8.74/10

TECHNICAL SKILLS AND TECHNOLOGIES

Programming: Java, C++, C, Python, MySQL, MATLAB
Frameworks: Spring, Hibernate, Kafka, Spark
Tools: AWS, GIT, Gerrit, JIRA

WORK EXPERIENCE

Software Developer, Numerify, India **June 2016 - July 2018**

Data Lake Analytics Event Extraction Platform

- Designed and developed a framework in **JAVA** that can extract data from various cloud sources like AppDynamics and New Relic. The system can extract over 10 million records and is scheduled to push data into data lake at 15 min interval
- Platform is used to provide **near real time analytics**. The continuous streaming of data was managed using Kafka and Spark architecture which replaced daily batch processing to real time operational analytics for clients

Efficient Release Management System

- Designed and developed a custom version control algorithm which is used to merge changes in ETL data-models on two independent builds
- System facilitated smooth application releases across the teams by reducing **99%** of the human intervention

ETL Query Generation Engine

- Developed an **automated analytical query generation** platform, for modeling data-warehouse complexities with an intuitive interface
- Engine is used to design scalable data warehouse and reduced the ETL development time from **~18 hours to ~2 hours**

Software Development Intern, Mastek, India **May 2015 - July 2015**

Knowledge discovery framework

- Designed a framework which gives enriched output, to detect medicines for various newly discovered diseases by analyzing structured and unstructured data. Used StanfordCoreNLP for pre-processing, gene annotation & achieved 92% accuracy
- This architecture is used as a base-layer to build ML models in the stack by research scholars.

ONGOING PROJECT - *Conversational Question Answering System (CoQA)*

Developing a novel architecture for machines to answer series of interconnected questions in a conversation using Bi-Directional Attention flow and LSTM (Encoder-Decoder) networks

PROJECTS

Major League Baseball Analytics Application **August 2018**

- Implemented data-structures and efficient algorithms to analyze the data and generate insightful league trends

Emotion Detection **June 2015 – May 2016**

- Developed a novel graphical model to enhance the emotion classification architecture
- The accuracy rates are 94.19% for feature extraction part, 89% for standalone fuzzy logic systems and 81.8% for the complete merged system

Home Automation to regulate Air conditioner **May 2014 – July 2014**

- Designed a system with GUI to regulate temperature across the laboratories, that reduced the energy consumption by 30%

Autonomous line follower **Oct 2012**

- Programmed an autonomous bot to follow monochromatic lines and solve grid. Extended this to compete at IITB tech fest

RESPONSIBILITIES

Arizona State University <i>Public Relationship/Communication Leadership Role – Artificial Intelligence Club</i>	August 2018
Visvesvaraya National Institute Technology <i>Student Council - Social secretary</i>	August 2015 – May 2016
Visvesvaraya National Institute Technology <i>Ladies Representative for department</i>	August 2013 – May 2015

ACHIEVEMENTS

Received Spot award for noteworthy contributions to a project at Numerify	July 2018
Among top 0.03% in All Indian Engineering Entrance Examination	May 2012