Lakshmi Prasanna Gorrepati

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OBJECTIVE: Software Development Engineer – Intern, Summer 2022

EDUCATION

Master of Science in Computer Science **Aug 2021 – May 2023**
San Jose State University, San Jose, CA, USA (expected)

Ongoing Coursework: Artificial Intelligence, Database Systems Principles, Wireless Mobile Networking

Bachelor of Technology in Computer Science & Engineering **Aug 2013 – May 2017**
Gayatri Vidya Parishad College of Engineering, India

Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Operating Systems

TECHNICAL SKILLS

Languages	Python, Java, C++
Frameworks/Libraries	Scikit-learn, Pandas, Numpy, Django, Matplotlib, Hadoop (Map Reduce), Keras, Tensorflow
Platform/Tools	Version Control (GIT), Pylint, Weka, Docker, TensorFlow, Jenkins, Jira
Databases	MySQL, SQLite, Db2
Data Science	Data modelling, Data Visualization, Machine Learning Algorithms

WORK EXPERIENCE (4 Years)

Tata Consultancy Services India, Hyderabad **Oct 2017 – Jul 2021**
Software Engineer
[Python, Machine Learning, Django, SQLite]

- Designed and developed **"Ericsson Machine Learning Classification and Analytics Tool"** which automates the analysis ofsoftware crash dumps generated when there is a drop in signal. Saved man hours and reduced the time required for analysis by 70%
- Developed efficient machine learning models using Unsupervised, Supervised, Semi-Supervised and Natural Language Processingtechniques.
- Developed Restful API's for all the customers which our tool supported
- Automated test cases and did unit testing with 90% code coverage
- Created an alert email system which sends an automated email to the developers
- Created utility to help visualize the spatial distribution of errors across the map
- Developed a module to help in debugging of critical issues
- Implemented automatic retraining of the machine learning models for every two months

ACADEMIC PROJECTS

Cardiovascular Disease Prediction

Built ML models that predict the probability of getting a cardio vascular disease based on several diagnostic data points. Used Hadoop framework for distributed data processing of large data sets.

Database Implementation in C++

Designed and implemented a working database engine using file serialization and deserialization. Implemented most of the SQL queries in C++

AI powered collision detection [Convolutional Neural Network]

Created images for different types of collisions between two objects. Built a CNN to predict the type of collision based on the image.

Deck of card prediction

Generated deck of cards. Trained the cards using SVM with the kernel variant of the S-K algorithm to predict cards.