Mahitha Chodavarapu

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↗ https://mahithachodavarapu.github.io/Portfolio/index.html

🎓 Education

Master of Science in Information Technology, *Jawaharlal Nehru Technological University, Hyderabad*
2020 – 2022
Specialization: Machine Learning
CGPA: 9.2 (until now)
Relevant Courses: Deep learning, supervised learning, Unsupervised learning, Machine learning, Natural language processing, Database, Computer Networks, React JS.

Bachelor of Technology,
Joginpally B.R. Engineering College
2016 – 2020
Specialization: Computer Science Engineering
CGPA: 7.48
Relevant Courses: Data analytics, Programming in Python, Web technologies, Java Programming, Cloud computing, Databases, Data Structures, and Algorithms

Intermediate,
Sri Chaitanya Junior College
2014 – 2016
Specialization: Maths, Physics, Chemistry
Percentage: 83%

SSC, *Srinivasa High School*
2014
GPA: 9.0

💼 Internships

Product Development Intern,
at Turnkey Learning
- Gained profound understanding of deep learning concepts such as Gradient Descent, Backpropagation,Batch Normalization,Dropout, etc.
- Built a model that can predict the lable for the given phoneme
- Worked on building an optimized model that predicts the cosine similarity between two images using CNN.
- Gained thorough understanding of latest deep neural networks (CNN/RNN networks such as ResNet, LSTM etc) and their applications.
- Got a hands on experience in Deep Learning framework such as pytorch and also implemented our own version of pytorch.

Data Preprocessing,
at Orbit Shifter Inc.
- Worked on data cleaning and ensure data quality, consistency, integrity using Numpy and Pandas.
- Worked on Data annotation using label IMG tool.
- Worked with the team to ensure that data is delivered and processed to agreed schedules.

✏️ Objective

To obtain a position in an organization to leverage my high-quality education from JNTUH and skills gained during an internships. Possess a Master's degree in Information Technology and a broad understanding of computing technologies.

💼 Skills Summary

Python Programming
- Good understanding and hands-on experience on various Python libraries like Pandas, Numpy, Scipy, Matplotlib, and sci-kit-learn
- Worked on Data Preprocessing using python as part of the internship at Orbit Shifter Inc
- Expertise in logic building and writing optimized code in python
- Sound knowledge of OOPs concepts in python

Deep Learning
- Possess a solid understanding of deep neural networks (CNN/RNN networks such as ResNet, LSTM, etc) and their applications
- Strong understanding of Convolution Neural Networks.
- Hands-on experience in Deep Learning frameworks such as PyTorch.
- Exposure to GPU technology and CUDA.

SQL
- Excellent SQL query development and optimization skills
- Understanding of data management landscape including data quality, data analysis data integration, and metadata management
- Hands-on experience in writing complex SQL queries and table joins

Machine Learning
- Understood and Implemented the supervised and unsupervised learning algorithms.
- Currently enrolled in MSIT program with a focus in Deep Learning, Machine Learning, and AI.
- Possess good knowledge in statistics, the math behind machine learning, and has a good understanding of linear algebra, Bayesian statistics, and group theory.

Natural Language processing
- Deep understanding of text representation techniques (such as n-grams, bag of words, sentiment analysis, etc).
- Hands-on experience in NLTK library.

Java
- Responsible for designing and developing a "Bank Management Application."
- Solid fundamentals in OOPs concepts.
- Utilized object-oriented programming and Java for creating business logic
- Performed code review, testing using JUNIT.

🔧 Academic Projects

Title: Face Classification & Verification using Convolutional Neural Networks
- **Organization:** Turnkey Learning
- **Description:** Used Convolutional Neural Networks (CNNs) to design an end-to-end system for the classification and verification of images. In the classification task, given an image of a face as input, got the ID of the face as output . For the verification task, given two images as inputs and got a score that quantifies the similarity between the faces in the given images as the output.
- **Technologies used:** Python Programming, Deep Learning.

🌐 Languages

English
Hindi
Telugu

Title: Frame Level Classification of Speech

- **Organization:** Turnkey Learning
- **Description:** Provided a dataset of audio recordings (utterances) and their phoneme state (subphoneme) labels, generated predictions for the phonemes of the test set using feedforward neural networks.
- **Technologies used:** python programming, Deep learning.
- **Libraries used:** PyTorch, numpy.

Title: My torch
- **Organization: Turnkey Learning**
- **Description:** Developed my own version of custom deep learning library,called MyTorch. It acts similar to PyTorch.
- **Libraries used:** NumPy
- **Technologies used:** Python programming, Deep learning.

Title: User Vitality Ranking and Prediction in Social Networking Services
- **Goal:** To predict the activeness of a person on social media.
- **Organization:** Joginpally B R Engineering College.
- **Role:** Team Leader.
- **Team size:** Worked in a team of four members.
- Technologies used: HTML, CSS, JavaScript, Java.
- **Description:** Worked on javascript. Deployed a website that servers as a platform to communicate. This website collects user data and predicts user vitality on the website.
- **Algorithms used:** Initial Ranking Algorithm and Iterative Ranking Algorithm

Title: A Secure Approach for Data Hiding Using Visual Cryptography
- **Goal:** Share confidential images over networking in a secure way
- **Organization:** Joginpally B R Engineering College.
- **Role:** Team Leader.
- **Team size:** Worked in a team of four members.
- **Description:** I worked on backend development. Developed a website that can be used as a platform to share images online in a secure way. Gained knowledge of JavaScript.
- **Technologies used:** HTML, CSS, JavaScript, Java.

✒ Declaration

I hereby declare that all the details mentioned above in my resume are correct and accurate.

Mahitha Chodavarapu
Hyderabad