SIVAMPETA SAMPATH KUMAR

M.Tech, 3ʳᵈ year | (CSE)

Indian Institute of Technology - Hyderabad

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CAREER OBJECTIVE:

To work in a challenging environment where I can put my best efforts and knowledge to reach the respective company's goals and objectives while ensuring growth in my personal career.

ACADEMIC QUALIFICATIONS:

Year	Degree/Certification	Institute	Percentage Secured
2022-present	**M.Tech - CSE**	Indian Institute of Technology - Hyderabad	7.66 (CPI)
2015-19	B.Tech - CSE	JNTU H	60.6%
2013-15	Intermediate(Board of Telangana)	Narayana Junior College	59.3%
2012-13	10th(Board of Andhra Pradesh)	Vijaya Mary High School	77%

EXPERIENCE:

Software Engineer (Oct 2019 - Present)

Plianto Technologies, IIT Hyderabad

- Created front-end data representation web pages and back-end systems using the Spring framework.
- Contributed to the development of the Academic Institute Management System within a team.
- Collaborated on projects to develop applications for managing health data and COVID-19 tests for primary healthcare centers in Telangana.
- Currently involved in a team project developing an application for the commercial tax department. The focus includes utilizing deep learning techniques for fraud detection and managing diverse modules of GST-related data.

PROJECTS:

Exploring Deep Learning: Implementing and Analyzing Algorithms and Variants

- **Domain:** Deep Learning
- **Description:** The project aims to implement and analyze different deep learning algorithms and their variants for classification tasks. It includes implementing a perceptron learning algorithm, gradient descent for training a linear classifier, MLP with a single hidden layer, and variants of backprop for visualizing CNNs. Additionally, the project includes implementing SGD update rule variations for finding the minimum of a function.
- **Tools Used:** Python, Numpy, Matplotlib, PyTorch

Building a Secure Chat App with OpenSSL and Protection Against Man-in-the-Middle Attacks

- **Domain:** Network Security
- **Description:** The project involves designing a secure chat application that utilizes TCP and TLS protocols to

ensure reliable communication. It also includes developing a program to perform a downgrade attack and another program to perform a Man-in-the-Middle (MITM) attack for tampering with the chat communication.

- **Tools Used:** OpenSSL, Python, Wireshark

TECHNICAL SKILLS:

- **Domain Programming**   : C, JAVA, Python
- **DB Languages**   : SQL, PostgreSQL
- **Web Technologies**   : HTML, CSS
- **Scripting Languages**   : JavaScript
- **Framework**   : Spring
- **Operating system**   : WINDOWS XP, 7, 10, Linux(basics)
- **Office Tools**   : MS Office
- **Data Science Tools**   : Jupyter Notebook(Python, Numpy, Matplotlib, PyTorch)

TECHNICAL AREAS OF INTEREST:

- Algorithm Design and Analysis
- Machine Learning

PERSONAL INFORMATION:

Date of Birth   : 18th Sep 1997
Father's Name   : S Jaswanth
Languages known   : English, Hindi and Telugu
Permanent Address   : Flat No. 402, Sri Venkateshwara Residency, Santoshima Nagar Colony, Neredmet, Secunderabad, Telangana - 500056

DECLARATION: I hereby declare that the information provided above is true to the best of my knowledge.

Place: Hyderabad, India

Date: 14/03/2023   (SIVAMPETA SAMPATH KUMAR)