# SAHITH THADIMUDUPULA

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## SKILLS

**Technical Skills:**

- Programming Languages: Python, SQL, Shell Scripting
- Python: Variables & Names, Data Structures, Conditional Statements, Loops, Functions, File Handling, Debugging, Classes and Objects
- SQL: Data Modelling, DDL, DML, Joins, Window Functions, Stored Procedures, Integrating Python with SQL
- Shell Scripting: Basic Commands, Frameworks, Cron Jobs, Git

**Data Analysis and Processing:**

- Data Cleaning: Structured vs Unstructured Data, Textual Data Cleaning, Meaningful Data Transformation
- Data Visualization: Matplotlib, Seaborn, Plotly Dash
- SQL and Data Manipulation: ETL/ELT Process

**Big Data and Distributed Computing:**

- PySpark API: HDFS Architecture, MapReduce Algorithm, Hadoop Ecosystem, Spark Batch Data Processing

**Computer Vision and Natural Language Processing:**

- Computer Vision: Image Processing, Deep Neural Networks, Convolutional Neural Networks
- Natural Language Processing: Tokenization, Stemming, Lemmatization, POS Tagging, Text Classification

**Machine Learning and Deep Learning:**

- Machine Learning: Regression, Classification, Clustering, Dimensionality Reduction, Support Vector Machines, Random Forest & Decision Trees
- Deep Learning: PyTorch, Convolutional Neural Networks, Recurrent Neural Networks, LSTMs, Seq2Seq Models

**Additional Skills:**

- Version Control: Git
- Linux: Basics of Linux Commands

# EDUCATION

**MACHINE LEARNING COURSE WITH IIT-M PRAVARTAK CERTIFICATION | DEC 2022 - JULY 2023 | ONLINE**

**GOOGLE/DATA ANALYTICS PROFESSIONAL CERTIFICATE | DEC 2022 - MARCH 2023 | ONLINE**
- Completed six-month job-ready Google Career Certificate training.
- Proficient in data cleaning, visualization, project management, and interpreting data analytics findings.
- Strong programming skills and database knowledge.

**INTRODUCTION TO COMPUTER SCIENCE CS50X CERTIFICATE | SEP 2022 – JULY 2023 | ONLINE**

- Broad and robust understanding of computer science and programming
- Proficient in thinking algorithmically and solving programming problems efficiently.
- Strong grasp of concepts like abstraction, algorithms, data structures, encapsulation, resource management, security, software engineering, and web development
- Familiarity with multiple programming languages, including C, Python, SQL, JavaScript, CSS, and HTML
- Active engagement with a vibrant community of like-minded learners from various experience levels
- Experience in developing and presenting a final programming project to peers.

**UNDERSTANDING TECHNOLOGY FROM CS50 CERTIFICATE | DEC 2022 - JULY 2023**

- internet
- multimedia
- security
- web development
- programming

**SIEMENS DIGITAL INDUSTRIES SOFTWARE PRESALES ASSOCIATE CERTIFICATE | DEC 2022 - JULY 2023**

- Able To Demonstrate
- Conduct Technical Discussions
- Product Lifecycle Management (PLM)
- Siemens Vision
- Technical Proficiency

**BACHELOR OF TECHNOLOGY | JULY 2015- MAY 2019 | GITAM SCHOOL OF TECHNOLOGY**

- Major: Mechanical Engineering
- Related Coursework: Heat & Mass Transfer, Material science, Mathematics
- Percentage: 78%

**INTERMEDIATE | JULY 2013- MAY2015 | Chaitanya Junior College**

- Major: Mathematics, Physics, Chemistry
- Percentage: 87%

## Experience

**APPLICATION ENGINEER CFD | PRAKRITI TECNICS INDIA PVT LTD | JUN 2022 – NOV 2022**

- Six months of experience in Computational Fluid Dynamics (CFD) software pre-processing, solving, and post-processing.
- Analysed and solved 15+ complex problems, evaluated multiple solutions, and made informed decisions.
- Actively listened to 50+ customers' requests, ensuring complete understanding before addressing concerns.
- Identified 10+ issues, analysed extensive information, and provided effective solutions resulting in a 20% improvement in overall process efficiency.

## Projects:

**Twitter Scraping:**

- Description: Developed a robust Python script leveraging the Twitter API to scrape and retrieve data from over 10,000 tweets, ensuring efficient data collection and analysis.
- Role: Sole developer
- Achievements:
    - o Successfully collected a dataset of over 10,000 tweets using snscrape, a powerful social networking services' scraper.

**PhonePe Data Visualization:**

- Title: PhonePay - Pluse
- Description:

- - Data visualization project, using Python, SQL, MySQL, and Streamlit to analyze a dataset of 10,000+ records.
  - Created interactive visualizations that showcased meaningful patterns and trends, demonstrating strong proficiency in data visualization techniques.
- Role: Sole developer
- Achievements:
  - Earned 9/10 credits from IIT Pravartak.
  - o Integrated MySQL for efficient data querying and retrieval, enabling seamless access to transaction data and improving data processing speed by 40%.

## Languages:

- English (Fluent)
- Telugu (Native)
- Hindi (Intermediate)