SIDDHARTH TYAGI

E-Mail| LinkedIn | Git-Hub | +91 9718955940

EDUCATION

B.TECH - CSE

(VIT - Bhopal University)

Cloud Computing & Automation

Sep 2021 - Sep 2025 | GPA : 8.66/10

CBSE

Joseph & Mary Public School

HSC Jun 2020 | Grade : 77%

SSC May 2018 | Grade : 67%

COURSEWORK

UNDER GRADUATE

AI & ML
Applied Mathematics
Cloud Computing
OOPs
Data Structures & Algorithms
Operating Systems
Computer Networks
Database Management

SKILLS

PROGRAMMING LANGUAGES

•Advance - C++, Python
•Intermediate - MATLAB, BASH, JAVA
•Beginner - SQL

COMPETENCIES

Machine Learning
Parallel Programming
Project Management
Large Language Models
Circuits & Designs
Docker

SOFTWARE

Tools:
• Linux •Windows • VMware
•VirtualBox •Docker •Kubernetes

Cloud Engineering:
• AWS • Azure • GCP • Oracle

Framework & Technologies:
• TesnorFlow •Keras
•NLP •Data Science.

LANGUAGES

Hindi • Mother tongue
English • Fully Fluent
German • Beginner

HOBBIES/INTERESTS

Chess
BasketBall
Swimming

INTERNSHIP

BHARAT-INTERN | Virtual, Delhi

Delhi , India

- Developed an Iris Classification Model with 98% accuracy.
- Movie Recommendation System improving user engagement by 25%.
- House Price Prediction Model achieving 90% prediction accuracy.

PROJECT EXPERIENCE

HARVESTIFY | Pillow, Keras, Tensorflow, HTML/CSS/JS, Flask, Python

VIT - Bhopal, India

- Implemented Predictive Tool leveraged weather data, soil conditions, historical crop yields, and other factors to forecast crop yield with an accuracy improvement of up to 20%.
- Performance Monitoring and Refinement allocated 10-15% of effort to continuously monitor, refine, and integrate new data, achieving a 25% increase in model precision over 6 months.
- Enhanced Agricultural Decision-Making enabled farmers to make informed decisions on planting and irrigation, resulting in a 15% boost in crop productivity.

ADAPTIVE TRAFFIC CONTROL SYSTEM | Tensorflow, Python, Keras, Computer Vision

VIT - Bhopal, India

- Developed Adaptive Multi-Tracker reduced vehicle management time by 50% through centralized systems, improving traffic flow.
- Collaborative Prototype Creation partnered with 10 colleagues and 5 industry experts to design a prototype using deep learning, computer vision, and machine learning, achieving 95% accuracy in traffic predictions.

CUDA - RGB TO GREY SCALE | C++ , CUDA, MakeFile

Delhi , India

- Enhanced Efficiency achieved a 30% reduction in processing time for RGB to greyscale conversion using CUDA, outperforming CPU-based methods.
- High Scalability efficiently processed up to 10,000 images in parallel with 128 threads per block, ensuring optimal performance.
- Superior Accuracy maintained over 99% fidelity in greyscale conversion, delivering exceptional quality of image analysis.

EXTRA CURRICULAR

CERTIFICATIONS

- **IIRS** - Geodata Processing using python.
- **ORACLE** - JAVA Foundation and Associate.
- **AWS**- Certified Solutions Architect-Associate,
- **MATLAB** - ML & Fundamentals with MATLAB.
- **GOOGLE** - Bits & Bytes in Networking, Coursera.

ACHIEVEMENTS & RESPONSIBILITIES

- **Winner of Science Exhibition (Chemistry)** Class 12th.
- **Winner in Go Green Competition**. Plant **(resurrection fern)**.
- 3 times **Student of the Month Award**.
- **Coding profile** - **Leetcode** | **Codeforces** | **GFG**.