

VAISHALI SINGH

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🌐 GitHub Profile

🌐 LinkedIn Profile

EDUCATION

•Vellore Institute Of Technology, Vellore

2025

B.tech in Computer Science Engineering with specialization in Data Science

CGPA: 8.86

•Delhi Public School, Allahabad

2020

Central Board of Secondary Education

12th Percentage: 92

EXPERIENCE

•Perfect Squares, Inc. - Bangalore, Karnataka

[Certificate Link](#)

Data Science Intern | September 2023 - December 2023

- During my internship at Perfect Squares, Inc., I worked on data science projects, gaining hands-on experience in deep learning and offline handwritten signature verification. Applied advanced techniques and methodologies to contribute effectively to the projects.

•Mozilla Firefox Club

Events Head

- As the Events Head of Mozilla Firefox, I led a technical club with 1000+ members, organizing hackathons and technical fests. I curated engaging events, fostered collaboration, and promoted continuous learning. My efforts led to strong partnerships and a vibrant community known for technical excellence and camaraderie.

PERSONAL PROJECTS

Signature Verification

- The objective of the project is to create a deep learning network which classifies signatures as genuine and forgery using a deep learning algorithm, Siamese neural networks with the help of this [research paper](#). The model demonstrated its ability to effectively distinguish between genuine and forged signatures, serving as a valuable tool in security and authentication applications. Addressing challenges related to data type compatibility and optimizer selection ensured the model's robustness and accuracy. The dataset achieved 92% accuracy on the test data.

Grammar Correction Model

- In this project, I developed a Grammar Error Correction Model using TensorFlow and Keras, integrating bidirectional LSTM layers and attention mechanisms. Achieved 99.5 accuracy by preprocessing data, employing sequence-to-sequence architecture, and optimizing hyperparameters. Implemented NLP concepts for data processing, I had used a sample from C4-200M dataset from Google Researchers.

Advanced House Pricing Prediction

- In this project, I used Python, NumPy, Pandas, Matplotlib, and Seaborn to create a cutting-edge Machine Learning solution for Surprise Housing, a US-based company. I efficiently managed data manipulation, exploration, and visualization. I leveraged various algorithms like Linear Regression, Xgboost, Random Forests, and Gradient Boosting for model building and evaluation. Implemented model selection through Randomized SearchCV. To prevent overfitting, I applied L1 and L2 regularization techniques. Evaluation was done using metrics such as MSE, R2score, and RMSE for accurate model assessment.

Interactive Portfolio Website

- I designed and developed an interactive portfolio website using HTML, CSS, and JavaScript, showcasing my skills and projects. The dynamic platform features a modern design with smooth scrolling, interactive project displays, and a user-friendly navigation menu. This website not only serves as a showcase for my proficiency in web development but also offers visitors an immersive experience.

TECHNICAL SKILLS AND INTERESTS

Languages: Python,Java,C/C++,R,HTML,CSS,Javascript,Php

Developer Tools: Microsoft Azure, AWS, Github

Frameworks: PyTorch, TensorFlow, Scikit-learn,Flask

Databases: Mysql

Soft Skills: Communication, Leadership, Problem Solving, Teamwork

CERTIFICATIONS

•**Microsoft Certified:**Azure Administrator Associate

[View Certificate](#)

•**AWS Certified:**Cloud Practitioner

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•**Machine Learning: Regression and Classification:**Stanford University and DeepLearning.AI offered the course.

[View Certificate](#)