

Internship

Cipher School

May - July 2024

- **Designed** and developed interactive modules and coding challenges that significantly enhanced students' understanding of C++ programming concepts, including OOP, data structures, and algorithms.
- **Built and optimized C++** programs to strengthen debugging skills, logical thinking, and code efficiency.
- **Worked** with the team to design and implement new C++ functionalities in the learning platform.
- **Wrote clean, well-documented C++** code and resolved critical bugs to ensure system stability, performance, and reliability.

Projects

Next Word Prediction Using RNN and Word Embedding | *Natural Language Processing, Overleaf*

Sep-November 2024

- Developed a Next-Word Prediction model using Recurrent Neural Networks (RNNs) and Word Embedding for predictive text generation.
- Preprocessed a large text dataset, including tokenization, stopwords removal, and vectorization using word embeddings.
- Built and trained an RNN-based model using TensorFlow and Keras, optimizing it for sequential text prediction.
- Evaluated model performance using accuracy metrics and fine-tuned hyperparameters for better results.
- Explored future improvements, including LSTM/Transformer architectures and larger datasets for enhanced accuracy
- GitHub Repository Link: <https://github.com/siddanthgaikwad/Next-Word-Prediction-Using-RNN-and-Word-Embedding>

Facial recognition for security systems (NLP & Machine Learning) | *Python, Pandas, NumPy,*

June - July 2024

- Developed a machine learning model for facial recognition technology is extensively utilized in security systems for identification and authentication. Facial recognition uses machine learning algorithms and deep learning methods to scan, identify, and authenticate individuals based on facial characteristics. With Natural Language Processing (NLP), facial recognition can be applied to support better user interaction and enhance overall security efficiency.

Certificates

Mastering Data Structures & Algorithms using C and C++

February 2023

Cloud Computing Essentials: Benefits, Services, Platforms, Security, and Careers

February 2023

Getting Started with AI and Machine Learning

March 2023

Programming using C++

June - July2024

Technical Skills

Languages: C, C++, Python, Java,

Technologies/Frameworks: Git, GitHub, Ubuntu, Linux

Skills: Data Structures and Algorithms, Problem-Solving, Analytical Skills, Collaboration

Education

Lovely Professional University Punjab

Jalandhar, Punjab

Computer Science and Engineering — CGPA: 4.76

2022 – 2026

SR Junior College

Adilabad, Telangana

12th with Mathematics, Physics, Chemistry — Percentage: 68%

2020 – 2022

SR Prime School

Adilabad, Telangana

10th — CGPA: 9.3

2019 – 2020