SHIVANG DWIVEDI

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GitHub | Linkedin | Portfolio

EDUCATION

Lord Buddha Public School

Kota, Rajasthan 12th CBSE July 2021 - July 2022

Percentage: 80.8%

VIT Bhopal University

Computer Science Bachelor of Technology

CGPA: 8.87

Bhopal, Madhya Pradesh

July 2022 - July 2026

EXPERIENCE

NULL chapter | Co-Lead

Bhopal, Madhya Pradesh | Jan 2024 - Feb 2025

- Applied data analytics to cybersecurity challenges, identifying attack patterns and optimizing CTF challenge difficulty based on participant performance.
- Automated data-driven decision-making for event organization, using insights from past CTFs to design more engaging and challenging competitions.
- Utilized Python, Pandas, and visualization tools to analyze cybersecurity event metrics, improving participation strategies and learning outcomes.

GirlScript Summer of Code | Contributor

Bhopal, Madhya Pradesh | May 2024 - Aug 2024

- Collaborated with developers worldwide, participating in pull requests, issue discussions, and code
- Enhanced coding skills and version control proficiency, working with Git, GitHub, and diverse tech stacks in real-world projects.

SKILLS

Programming Languages: Python

Libraries/Frameworks: NumPy, Pandas, Sklearn Git, VS Code, Linux Tools / Platforms:

Databases: MySQL

PROJECTS / OPEN-SOURCE

Typing Trainer with Data Analysis | Link

Python, Pandas, Tkinter

- Developed a Typing Speed Trainer application using Python and Pandas for performance tracking and data analysis.
- Implemented randomized sentence generation based on difficulty levels to assess typing proficiency.
- Designed a time-based typing test that calculates Words Per Minute (WPM) and accuracy rate.
- Utilized Pandas for data handling, storing user performance metrics and enabling structured analysis.
- Integrated a 21-day progress tracking system, allowing users to analyze trends and improvements via an external script.

Text Editor with Word Prediction | Link Jupyter Notebook, Python, TensorFlow, NumPy, Tkinter

- Developed an AI-powered word prediction system using an LSTM model with TensorFlow for real-time next-word suggestions.
- Integrated Pandas for data handling and performance tracking, enhancing user interaction with predictive text.
- Implemented rich text formatting features (bold, italic, underline, case toggling) using python-docx for structured document export.
- Designed a customizable UI with light/dark mode switching and font selection for improved accessibility.
- Provided a training script for fine-tuning the LSTM model with custom datasets, ensuring adaptability and enhanced prediction accuracy.

SENTIMENT ANALYSIS-for-BENGALI-LANGUAGE | Link Python, NLTK, RegEx, Scikit-Learn

- Implemented text preprocessing pipeline using NLTK and regex to clean Bengali text and remove stop words.
- Developed a machine learning-based sentiment classifier using Scikit-Learn for predicting sentiment polarity.
- Utilized Pandas and NumPy for efficient data handling, storage, and preprocessing.
- Designed a GUI using Tkinter for user-friendly sentiment analysis input and visualization.
- Enabled dataset-driven training with customizable models, allowing fine-tuning for improved accuracy.

CERTIFICATIONS

- Cloud Computing Swayam NPTEL
- Python VITyarthi by VIT University.
- AI and ML VITyarthi by VIT University.