Tulsi Shivpure

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Education

VIT Bhopal University   Bhopal, Madhya Pradesh
Integrated M. Tech. in Computer Science and Engineering (Computational and Data Science)   May 2026
Cumulative GPA: 8.99/10

12th Standard
GOVT BOYS H S SCHOOL   Rahatgaon, Harda, Madhya Pradesh
MP Board   Percentage: 96.20   May 2021

10th Standard
GOVT GIRLS HIGH SCHOOL   Rahatgaon, Harda, Madhya Pradesh
MP Board   Percentage: 95.20   May 2019

Skills

- Programming Languages: Java, Python (Basic), SQL
- Web Development: HTML, CSS, JavaScript
- Machine Learning & Data Science: Machine Learning, Data Visualization
- Other Skills: Data Structures & Algorithms (DSA), Analytical & Problem-Solving, Git/GitHub

Projects

1. SparkStream Chatbot [Python, Streamlit, Google Generative AI, python-dotenv]   Dec 2024-Jan 2025
- Developed an AI chatbot using Streamlit and Google Generative AI (Gemini) for real-time interactions.
- Integrated python-dotenv for secure API key management and environment configuration.
- Optimized the chatbot for seamless deployment and user-friendly interactions in web applications.

2. WordEmbedAlign [Python, BERT, ELMo, NumPy, SciPy]   Aug 2024- Nov 2024
- Built a tool to analyze word embeddings from BERT and ELMo for semantic similarity.
- Computed cosine similarity to align words across sentences and visualized results using Seaborn.
- Examined contextual and case sensitivity differences, providing insights for future research on advanced embeddings.

3. VisionCaption [Python, Flask, TensorFlow, VGG-16, LSTMs]   Nov 2022-Jan 2023
- Collaborated with a team of two to build an image captioning system using VGG-16 for feature extraction and LSTMs for sequence generation.
- Built a Flask backend to integrate the model for real-time caption generation.
- Designed a responsive UI using HTML, CSS and JavaScript for seamless image uploads and caption, display

Certification

- Google Data Analytics (8 Courses) [Coursera]   Feb 2025
- Applied Machine Learning in Python [Coursera]   Jan 2023

Co-curricular Activity

- Hackerrank: Achieved 5-Star rating in Java
- GFG: Currently Solved 467 Questions
- Leetcode: Currently Solved 575 Questions

Extra-curricular Activity

- Member of Data Science Club   Feb 2022
- TCS CodeVita Qualifier – Advanced to the next round in TCS CodeVita, a global coding competition.   Dec 2024

Languages

- Hindi
- English