

Swayum Hastwala

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Education

VIT Bhopal University, Bhopal, Madhya Pradesh

Apr 2022 – Present

B.Tech in Computer Science & Engineering *GPA: 8.55/10*

Modern Public School, Jhansi, Uttar Pradesh

Apr 2022

12th Standard (CBSE) *Percentage: 89%*

Sun International School, Jhansi, Uttar Pradesh

March 2020

10th Standard (CBSE) *Percentage: 91.8%*

Projects

Friday — AI Assistant (Dec 2024 – Present)

- Developing an AI assistant capable of performing system tasks via natural language processing (NLP) and voice commands, enhancing desktop automation efficiency by 40%.
- Integrated functionalities including Wikipedia search, time-telling, and task automation using Python and Tkinter for GUI.
- Currently expanding the assistant with Generative AI capabilities using TensorFlow and machine learning algorithms.
- Technologies: Python, TensorFlow, NLP.

Aushadhcare: Blood Report Analysis and Disease Prediction System (Sept – Nov 2023)

- Developed a system to analyse blood reports and predict potential diseases, enhancing early detection and health insights.
- Technologies: JAVA, XML, Android Studio | Role: Full Stack Developer.
- Integrated data validation, a risk assessment algorithm, and a user-friendly interface for accurate and seamless interactions.
- Improved prediction accuracy by 20%, enhancing the reliability of health assessments.
- Collaborated with a team of 5 to streamline development and conducted usability testing to refine the application based on user feedback.

VisionCaption: AI-Powered Image Captioning System (Dec 2024 – Present)

- Developed an advanced image captioning model using CNN for feature extraction and GRU for sequence modeling.
- Utilized TensorFlow, Keras, and COCO Captions dataset to train the model, achieving high accuracy in contextual captioning.
- Implemented custom tokenization and text preprocessing techniques using TextVectorization for optimal vocabulary representation.
- Technologies: Python, TensorFlow, Keras, GRU, COCO Dataset, Matplotlib.

Skills

- Languages:** Python, C++, C, Java SQL, JavaScript
- Frameworks:** ReactJS, HTML, CSS, NumPy, Pandas, TensorFlow
- Tools:** GIT, Visual Studio Code, Postman
- Soft Skills:** Leadership, Writing, Communication

Honors & Certifications

- Solved **350+ DSA problems** on LeetCode and **150+ DSA problems** on GeeksforGeeks
- Secured 3rd rank in the Bug Bonanza event organized by the GeeksforGeeks club at VIT
- The Bits and Bytes of Computer Networking (Coursera)
- Advanced: Generative AI for Developers (Google Cloud Skills Boost) (Self Learning)

Hobbies: Travelling, Music

Languages: Hindi, English, Spanish(Basic), Japanese(Basic)