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HRITIK DUBEY

SOFTWARE ENGINEER/ DEVELOPER

EDUCATION

- **Bachelor of Technology, Information Technology (I.T)**
  Vellore Institute of Technology, Vellore
  8.93 CGPA
  07/2019 - 06/2023
- **Higher Secondary School (CBSE)**
  Mahatma Hansraj Modern School, Jhansi
  84.2% (PCM)
  04/2017 - 05/2019
- **Secondary School (CBSE)**
  Sun International School, Jhansi
  9.2 CGPA
  04/2006 - 03/2017

SKILLS

- Data Structures and Algorithms
- Problem Solving
- C,C++,Java, Python
- Machine Learning and Deep Learning
- Natural Language Processing
- MS Azure Cloud Computing
- Full Stack Web Development (HTML, CSS, Bootstrap, NodeJS Javascript, JQuery, API's, AJAX, PHP, MySQL XML, NodeJs)
- Tools: Kali Linux, Matlab, Wireshark, Jupyter, Git, Packet Tracer.

EXTRA CURRICULAR

- **Students for the Exploration and Development of Space, VIT**
  Core Committee Member
  11/2019 - 06/2022

CERTIFICATIONS

- **Microsoft Azure Fundamentals AZ-900 (June 2022)**
- **Algorithmic Toolbox by the University of California San Diego (Oct-Nov 2021)**
- **Statistical Inference by Johns Hopkins University (April-May'2020)**

LANGUAGES

ENGLISH
Full Professional proficiency

HINDI
Native or Bilingual Proficiency

JAPANESE
Limited Working Proficiency

FRENCH
Elementary Proficiency

ABOUT

As a Software Developer pursuing a major in Information Technology from Vellore Institute of Technology, I am passionate about using my skills to solve practical problems. My areas of interest include machine learning, data science and web development. I have gained hands-on experience through academic projects, where I have leveraged various technologies and tools to develop solutions. I am a quick learner, highly motivated to innovate, and constantly seek new challenges to enhance my skills.

PROJECTS

Hybrid Sentiment Analysis and Recommendation Engine
(Nov 22-April 23)

- Final year major project. Developed a Hybrid Recommendation Engine.
- Technology Include : Beautiful Soup for webscrapping, ML models such as Naive Bayes, Random Forest, XGBoost, and Logistic Regression, and DL models such as CNN, LSTM, RNN, and BERT for sentiment analysis.
- SVD and KNN were used for developing a hybrid collaborative-content-based recommendation engine

Multivector DDoS Detection using advanced ensemble classifier
(Jan-April' 22)

- "Conducted a comparative analysis of machine learning models for detecting Distributed Denial-of-Service (DDoS) attacks in the context of cybersecurity.
- Fine Tuned LSTM model and used ensemble methods like XG Boost and ADA Boost and compared accuracy with Random Forest and SVM,

Penetration Testing & Vulnerability Analysis on Web Applications
(Aug-Nov'21)

- 5th Semester project for Information Security Audit and Analysis.
- Developed a Python tool to detect Cross-Site Scripting (XSS) attacks. Also utilized the best open-source tools available for penetration testing and vulnerability analysis on web applications

Rainfall prediction using Neural Networks
(Aug-Nov'21)

- Developed a system for predicting rainfall using various regression models and Artificial Neural Networks.
- Performed comparative study using evaluation metrics such as MAE and RMSE to determine the accuracy of the models

Personal Health and fitness Management using IoT Solutions
(Aug-Dec'20)

- Human-Computer Interaction Project
- Developed prototype and user interface for an integrated device which can maintain overall fitness and heath of a user.

Share your Covid Story - Web Development Project
(Aug-Dec'20)

- Full stack web development project with Tech Stack : CSS, JS, JQuery, JSON, Angular JS (Frontend),Express JS [Node JS] (Backend),MongoDB (Backend),Tensorflow JS (ML Framework)

PARTICIPATIONS

Stat-A-Thon–WS-2020 A Virtual Statistical Challenge by School of Advanced Sciences, Department of Mathematics. Qualified for Final Round.

OTHER INTERESTS

- Reading/ Writing
- Coding
- Designing