

Snehitha Tadapaneni

Arlington, VA | snehithat001@gmail.com | 202-768-4195 | github.com | [linkedin.com](https://www.linkedin.com)

EDUCATION

The George Washington University

Master of Science, Data Science (GPA: 4.0)

Relevant Coursework: Data Warehousing, Data Mining, Time Series Analysis for Forecasting, Machine Learning, Data Visualization

Washington DC

May 2026

Vellore Institute of Technology(VIT)

Bachelor of Technology, Computer Science and Engineering (GPA: 8.81/10.0)

Relevant Coursework: DSA, Statistics, DBMS, Human Computer Interaction, Machine Learning, Deep Learning, Natural Language processing, Linear Algebra

Vellore, India

May 2024

TECHNICAL SKILLS & CERTIFICATIONS

- **Programming:** Python (NumPy, Scikit-learn, PyTorch, TensorFlow, Keras, Sklearn, Flask), R, SQL, C++ .
- **Technologies & Tools:** Data Version Control, GitHub, Azure – Databricks, ML Studio, AWS – EC2, Microsoft – Power BI, Tableau, Power Apps, MongoDB, Excel.
- **Competencies:** Data Analysis, Statistical Modeling, Natural Language Processing, Deep Learning.
- **Certifications:** AWS Certified Cloud Practitioner (Jul 2023), Business Analytics with Excel by SmipliLearn (Jun 2023), Foundations of Data Science by Google (Aug 2023), Python for Data Science and ML Bootcamp by Udemy (Nov 2023).

PROFESSIONAL EXPERIENCE

Innomatics Research Labs

Data Science Intern

Hyderabad, India

Jan – Mar 2024

- Analyzed a dataset of thousands of internship applications to understand demographics of interns.
- Conducted an examination of recovered chat data to identify instances of misconduct related to sharing of unique Zoom meeting links.
- Analyzed historical data related to order arrival and delivery times for Domino's Pizza Store.
- Conducted an open-ended Exploratory Data Analysis on the AMCAT dataset including data visualization and statistical techniques and presented the document.
- Applied statistical tests to validate hypotheses and investigate specific claims, such as relationship between education and earning potential.
- Conducted a thorough examination of the backend codebase of the Note Taking Application to identify areas of improvement and bugs.

Smart Bridge

Artificial Intelligence Extern

Remote

May - Jul 2023

- Received comprehensive training in diverse development tools for AI, acted on a range of use cases, and completed a healthcare project using deep learning techniques.

ACADEMIC AND RESEARCH PROJECTS

Analysis of crime rates on residential property in Washington DC in 2014-18 | Python

Oct - Dec 2024

- Conducted an in-depth analysis of the relationship between neighborhood crime rates and residential property values using a dataset of 46,252 records and 30 attributes.
- Applied regression models, including Random Forest Regression and LightGBM, to uncover patterns linking crime rates to property values.
- Developed classification models (Random Forest, XGBoost) to categorize neighborhoods into housing price tiers based on violent crime rates and income levels, achieving actionable insights for policymakers and real estate stakeholders.
- Integrated and preprocessed data from Open DC Data and Kaggle by merging attributes across census tracts and years, ensuring a robust foundation for the analysis.

The Power of Data: ML in Cyber Attack Classification | Python & Framework, HTML, CSS

Jan - May 2024

- Implemented a state-of-the-art cyber attack classification system using supervised machine learning.
- Curated a diverse dataset including malware, phishing, and DDoS attacks to configure a robust model that accurately categorizes threats.
- Published in the IJNRD International Journal(ISSN: 2456-4184).

Web App for Text Extraction and Summarization using GPT-3 Model | Python**Jul - Dec 2023**

- Developed a web application that automates text summarization using GPT-3 model.

Deep Learning Model for Eye Diseases Prediction | Python, Flask framework, HTML, CSS, JS May - Jul 2023

- Developed an AI-powered application to accurately predict eye diseases using Flask serving a REST API with React as the frontend.
- Published in the Sensors Imaging System and Techniques, AAP, CRC PRESS (SIST-5010 [CHAPTER NO: 10]).

Data Hiding using Steganography and Visual Cryptography | Python**Jul - Dec 2023**

- Optimized an image recognition model to extract text from low-quality images and enabled natural language generation to summarize the content.

LEADERSHIP EXPERIENCES

Society for the Promotion of Indian Classical Music And Culture Amongst Youth VIT

ChairPerson, Management Head

- Led a team of 50 members, overseeing all organizational aspects and approving major events.
- Conducted brainstorming sessions to innovate new event ideas and implemented strategies to foster a cohesive and engaging club environment.
- Coordinated event logistics, managed audience engagement, and handled publicity to maximize event reach and impact.
- Recruited and managed volunteers to ensure smooth execution of all club activities and events.

IEEE IAS VIT

Design Team – Core Committee Member

- Developed and enhanced the frontend of our chapter website, ensuring an intuitive and user-friendly interface.