MUPPANENI S K M SRINIKETH

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EDUCATION

Vellore Institute Of Technology (Vellore) $\hspace{2cm}$ **2018 − Present**
B.Tech in Information Technology(IT) $\hspace{2cm}$ *CGPA: 8.60/10.0*

M.P. & E.V. English Medium School $\hspace{2cm}$ **2016 − 2018**
Senior Secondary School (CBSE) $\hspace{2cm}$ *Percentage: 92.8/100*

EXPERIENCE

Hackerone $\hspace{2cm}$ **October 2020 − Present**
Security Researcher $\hspace{2cm}$ *Part-time*

- Coordinated with US Department of Defense, IBM, Adobe and 4 other companies.
- Performed Penetration testing on Private and Public Bug bounty Programs.
- Reported more than 60 security vulnerabilities to US Department of Defense including a critical vulnerability.
- Shielded US Department of Defense, IBM, Adobe from critical vulnerabilities like Sensitive data exposure, Broken authentication, and Security misconfigurations.

AppShark $\hspace{2cm}$ **May 2021 − August 2021**
Software Engineer Intern $\hspace{2cm}$ *Internship*

- Implemented python based automation solutions for the Risk Management team; which improved the efficiency of the auditing, reporting, and dashboard processes.
- Reduced many hours of manual effort by deploying an automation.
- Designed and implemented a python automation script that sends birthday wishes to employees on behalf of the company automatically.

JPMorgan Chase & Co. $\hspace{2cm}$ **April 2020 − May 2020**
SWE Virtual Intern $\hspace{2cm}$ *Internship*

- Developed a chart feature for the trader's dashboard allowing the trader to better identify under/over-valued stocks.
- Executed a live graph that displays the data feed in a clear and visually appealing way for traders to monitor their trading strategy using JPMorgan Chase's Perspective framework.
- Gained hands-on experience on using Git, TypeScript, Python and JPMorgan Chase's Perspective data visualization software.

Humourbaba (House Of Babas) $\hspace{2cm}$ **May 2019 − August 2019**
Web Development Intern $\hspace{2cm}$ *Internship*

- Designed and developed a robust e-commerce web portal using MERN Stack Framework.
- Worked on designing and developing attractive Front-end pages.
- Transitioned the entire data from SQL database(MySQL) to NoSQL database(MongoDB).

PUBLICATIONS

Authored the chapter "Real World Applications of Generative Adversarial Networks and their Role in Blockchain Technology" under the book "Machine Learning Based Blockchain Technologies for IoTs and Big Data: Fundamentals, methods and applications", Published by IET UK, indexed by IET Inspec, Web of Science, etc. (Provisionally Accepted)

Sai Sharan, M Sriniketh, Harsha Vardhan, Dannana Jayanth, "State-Of-Art Machine Learning Techniques to Predict Airlines Delay". In IEEE 2021 International Conference on On Forensics, Analytics, Big Data, Security (FABS − 2021), Dec. 21-22, 2021, Bengaluru, INDIA.(Conference website) (PAPER ID : 97)

PROJECTS

Business meeting summary generation using NLP | *Python, NLTK, Jupyter Notebook*   **IIT Kharagpur**
- Implemented business meeting summary generation using NLP (taking an audio recording of the meeting as input and summarizing it in text format).
- Implemented abstractive text summarization using sequence-to-sequence RNNs based on the research paper "Abstractive Text Summarization using Sequence-to-sequence RNNs and Beyond".

Classification of research article topics | *Python, PyTorch, NumPy, Pandas, Jupyter Notebook*   **IIT Kharagpur**
- Created embedding matrix with initial weights of the glove, tokenized the data, and plotted Bar Charts, Histograms for analyzing the mult-Label textual data.
- Enhanced the accuracy by implementing Attention LSTM models and different versions of BERT like RoBert using PyTorch.
- Evaluated efficiency of diferent models through parameters like micro F1 score, micro-precsion to introduce best working model exhibiting accuracy 90% and F1 score 82.4%.

Lung Cancer Prediction | *Python, NumPy, SciPy, Pandas, Jupyter Notebook*   **VIT Vellore**
- Created a dataset of lung cancer patients with more than 20 attributes.
- Performed data preprocessing on the dataset to tailor the data according to the needs and performed the prediction.
- Implemented various prediction models like Support Vector Machine, Naive Bayes, and K Nearest Neighbour algorithms.

video synchronization Web App | *Javascript, VS Code*   **VIT Vellore**
- Designed and Developed a Web application using Javascript for viewing videos in realtime with friends
- Implemented Youtube API to include youtube videos and binge watch them with your friends.

Smoking Behaviour Prediction using Machine Learning | *Python, NumPy, SciPy, Pandas, VS Code*   **VIT Vellore**
- Predicted smoking behavior among population using SVM and logistic regression based Machine Learning model.
- Implemented dimensionality reduction techniques to analyse top n correlating signals.
- Mapped the development of smoking cessation apps to date.

TECHNICAL SKILLS

Data Structures, Data Science, Software Engineering, Cybersecurity, Web Application Security, and Data Analytics
Programming Languages: Python, R, Bash,Java, HTML/CSS, JavaScript, SQL
Machine Learning: NumPy, NLTK, Matplotlib, SciPy, Scikit-learn, Pandas, OpenCV, PyTorch, Tensor flow, Keras
Tools: Microsoft Excel, VS Code, Eclipse, Jupyter Notebook, Burp Suite, Figma
Technologies/Frameworks: Linux, Git

ACHIEVEMENTS

- Awarded Hall of fame in US Department of Defense, Adobe, IBM, Trip Advisor, Acronis, OWOX Inc., Courier, Stripo Inc Codechef.
- Ranked 80 World Wide in US Department of Defense Hall of fame.
- Recieved CERTIFICATE OF MERIT from Central Board of Secondary Education (CBSE) for scoring 10.0/10.0 CGPA.

RELEVANT COURSEWORK

Data Structures and Algorithms, Operating Systems, Machine Learning, Object Oriented Analysis and Design, Applied Linear Algebra, Applications of Differential and Difference Equations and Data Mining Techniques