Hitesh Goyal

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I am a student exploring Artificial Intelligence and Machine Learning to better understand human intelligence and learning. I aspire to change the world into a better and happier place.

ACADEMIC QUALIFICATIONS

Vellore Institute of Technology, Chennai Campus   2019 - PRESENT
B. Tech CSE with Spec. in AI and ML (9.01 CGPA)

CMR National Public School, Bangalore   2017 - 2019
12th Grade CBSE (83.4%)

Sishu Griha High School, Bangalore   2004 - 2017
10th Board ICSE (87.5%)

WORK EXPERIENCE

Student Research Intern - Samsung PRISM   NOV 2021 – PRESENT
- Researched on using Deep Learning in Frame Rate Conversion for quality improvement.
- Languages and tools used – Python, Numpy, OpenCV, Pytorch

Student Research Intern – VIT Chennai   JUN 2021 – JUL 2021
- Performed research on Intent Detection using Graph Convolutional Networks and compared their accuracy to other ML models.
- Languages and tools used – Python, Numpy, Pandas, SKLearn, Tensorflow

Student Intern – SmartKnower   FEB 2021 – APR 2021
- Trained an ML model for Object Character Recognition of Devanagari Digits.
- Trained a panel of ML models using Ensemble Learning to predict sentiment of text and deployed it on a simple web application.
- Languages and tools used – Python, Numpy, Pandas, NLTK, SKLearn

PROJECTS

Cognify – Brain Training App   JUL 2020
- Developed 4 brain training applications – Sudoku, Mastermind, Battleships (with AI player), Memory Match.
- Integrated dynamic theme styling into the application.
- Languages and tools used – JavaScript, React Native.

Taalika – Multi-purpose Organiser   JUL 2020
- Managed the app development process. The app includes task management, notes management and attendance tracking.
- Created the notes organisation module.
- Languages and tools used – JavaScript, React Native.

Fake News Detection Application   JUL 2021
- Developed and trained fake news detection model using GloVe word embeddings and NLP.
- Languages and tools used – Python, Pandas, Numpy, NLTK, Spacy, Tensorflow, Flask.

TECHNICAL SKILLS

- Object-Oriented Programming, Research Work and Working understanding of ML, DL and RL concepts.
- **Programming Languages**: Python, C, C++, Java, JavaScript.
- **ML and DL Tools and Frameworks**: Numpy, Pandas, SKLearn, Tensorflow, PyTorch, TF-RL, OpenAI-Gym, OpenCV, NLTK, Spacy, Librosa.
- **Other Tools and Frameworks**: HTML, CSS, SQL, React, React Native, NodeJS, MongoDB, Flask, GitHub, Linux, Cisco Packet Tracer, Wireshark.

RESEARCH WORK

- **Survey on Pre-processing Techniques for Intent Detection -** The paper compares and contrasts the effectiveness of different ML models to Graph Convolutional Networks.
- **Neural Steganography and Steganalysis** – The papers (2 papers) explore the effectiveness of Steganalysis in identifying steganography and compare the effectiveness of a Neural Network in hiding data as compared to contemporary steganography methods.
- **Neural Cryptanalysis** – The paper shows how one can make a cipher breaking neural network. It compares GRUs, LSTMs and standard RNNs in how effectively they break simple ciphers like Caesar and contemporary ciphers like AES and DES.
- **DDoS Classification using Deep Learning** – The paper explores how well different Neural Network architectures are able to identify different DDoS attacks and compares how a slight change in activation functions can increase the accuracy.

ADDITIONAL INFORMATION

- **My Strengths** – Leading, Learning, Curiosity, Punctuality, Practicality, Aptitude, Clear Communication, Solution Oriented Approach.
- I am the Programme Representative for AI and ML Branch.
- I managed most of the projects I was a part of.
- I enjoy playing the guitar, listening to music and trying out new activities.