

Hitesh Goyal

Student in AI and ML

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.



hiteshgoyal.business@gmail.com

9945609038

Bangalore Urban, India

linkedin.com/in/hitesh-goyal-5732bb208

github.com/indianeagle4599

EDUCATION

B. Tech CSE with Spec. in AI and ML

Vellore Institute of Technology, Chennai Campus

07/2019 - Present

9.01 CGPA

12th Grade, CBSE

CMR National Public School, Bangalore

05/2018 - 05/2019

83.8%

10th Grade, ICSE

Sishu Griha High School, Bangalore

06/2016 - 05/2017

87.5%

WORK EXPERIENCE

Student Research Intern

PRISM, Samsung R&D

11/2021 - Present

Details

- Researched on using Deep Learning in Frame Rate Conversion for quality improvement.
- Helped in creating the method for Frame Rate Conversion.
- Languages and tools used – Python, NumPy, OpenCV, PyTorch.

Student Research Intern

VIT Chennai

06/2021 - 07/2021

Details

- Performed research on Intent Detection using Graph Convolutional Networks and compared their accuracy to other ML models.
- Helped develop the research paper for the same.
- Languages and tools used – Python, NumPy, Pandas, Sci-Kit Learn, TensorFlow.

Student Intern

SmartKnower Pvt. Ltd.

02/2021 - 04/2021

Details

- Trained an ML model for OCR 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, Sci-Kit Learn.

TECHNICAL SKILLS



PERSONAL PROJECTS

Cognify – Brain Training App (07/2020)

- 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 (07/2020)

- 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.

Uchchaar - Helping the Dyslexic (02/2021)

- Helped create an application which helps dyslexic children to learn to recognize and pronounce words in Hindi.
- Helped collecting data to build a Speech Recognition model and created a speech recognition model using ML and DL.
- Languages and tools used - Python, NumPy, Pandas, Librosa, Sci-Kit Learn, TensorFlow.

Fake News Detection Application (07/2021)

- Developed and trained fake news detection model using GloVe word embeddings and NLP.
- Languages and tools used – Python, Pandas, NumPy, NLTK, Spacy, TensorFlow, Flask.

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 2 papers explore the effectiveness of Neural Networks in performing and identifying Steganography.

Neural Cryptanalysis

The paper 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 with various activation functions are able to identify different DDoS attacks.