

Himanshu singh

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EDUCATION

•Guru Gobind singh inderprastha University, New Delhi

2020-24

Bachelor of Technology in Computer Science and Engineering

CGPA: 9.08

Subjects: Database Management, Artificial Intelligence, Data Structures and Algorithms

•SCR Public School, Pune - Senior Secondary

2019

Central Board of Secondary Education(C.B.S.E)

Percentage: 76.8

PERSONAL PROJECTS

•Pneumonia Detection(X-Ray Image)

March 2023

A model based on CNN detects pneumonia with 98.9% accuracy.

- The network architecture comprises successive layers of Conv2D for convolutional operations, MaxPool for down-sampling, and Dropout for regularization, followed by Flattening to transform data, and activation functions ReLU and sigmoid to introduce non-linearity, thereby facilitating complex feature extraction and output prediction.
- Implemented advanced Live detection techniques to accurately diagnose diseases, resulting in a 98.9% reduction in misdiagnoses and improving patient outcomes.
- Technology Used: Keras framework, Pandas, Numpy.

•Generator and Discriminator(GAN)

Jan 2023

The GAN architecture consists of two main components: the generator and the discriminator.

- Employing PyTorch's deep Convolutional Neural Network (CNN), the model's parameters undergo iterative refinement to enhance its proficiency in accurately discerning between authentic and generated instances..
- Python, PyTorch, Jupyter.

•Autonomous Car

February 2023

Holding knowledge of Q-learning the model was trained.

- The neural network was trained and evaluated within a simulated environment.
- virtual sensors delivered real-time data inputs.
- Python, Kivy, OS, PyTorch.

•Spam and Non-Spam of E-mails and messages

June 2023

Detection system of Spammy messages and Emails.

- Implementing a robust real-time system for the proactive identification and mitigation of fraudulent language within emails and messages, ensuring enhanced communication security and integrity.
- NLTK, Matplotlib, Sci-kit Learn.

EXPERIENCE

•MLE Internship @ Jindal Steels

November 2022 - Jan 2023

- Contributed to the enhancement of a Django-based JSP Bot by integrating new functionalities and refining its capabilities.
- Collaborated with the development team to implement and test innovative features, enhancing the overall user experience.
- Proficiently skilled in Artificial Intelligence, demonstrating a comprehensive understanding of Python and SQL for advanced data analysis and modeling.

TECHNICAL SKILLS AND INTERESTS

Languages: C/C++, Python, SQL

Libraries : C++ STL, Python Libraries, MySQL, PostgreSQL

Dev Tools: Google Collab, VScode, Git, Github, Jupyter

Frameworks: Keras, Django

Cloud/Databases:MySQL, PostgreSQL

Areas of Interest: Artificial Intelligence, Machine Learning.

Soft Skills: Problem Solving, Self-Learning, Ethical Awareness, Adaptability

HONOURS AND VOLUNTEERS

–Planting Tree Volunteer Plantation Drive at ADGITM, New Delhi

April 2023

- * Helped to plant trees in schools and colleges.
- * Grow plants near My home and roadsides.