Siddharth Kumar Singh

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Education

Galgotias College Of Engineering And Technology Expected June 2025
Bachelor of Science in Computer Science(Artificial Intelligence) (CGPA: 8.23) *Greater Noida, UP*

Projects

AI-BASED RURAL HEALTH-CARE SYSTEM | *Python, tensorflow, deep-learning, MLops, CNN, RAG, GPT-API*

- Made a multi-lingual website that helps rural people in their health-care, embedded the website with "**Brain-Tumor-Classification-model**", "**Kidney-Tumor-Classification-Model**", "**Pneumonia Classification Model**"all these models are trained using "**VGG16**" using "**transfer learning**" method.
- Added "**ChatBot**" which is based on "**RAG**"(Retrieval Augmented Generation).

Credit Card Fraud Detection | *Python, Pandas, Numpy, EDA, Machine Learning Algorithms, Flask*

- Designed a cutting-edge credit card fraud detection system leveraging machine learning algorithms such as "**Random Forest**" that achieved a remarkable accuracy rate of "**99.5%**" on a dataset containing over 10,000 transactions.
- The project's goal is to safeguard consumers' financial information, minimize financial losses for individuals and businesses, and maintain the integrity of the global financial system..

AI-EMPLOYEE | *Python ,Pandas, Machine Learning Algorithms, Streamlit, Matplotlib*

- Developed an AI-powered data analysis tool using Python, integrating machine learning algorithms like "**Random Forest**" and "**K-means Clustering**" for automated insights generation and predictive modeling.
- Implemented a user-friendly interface with "**Streamlit**", allowing non-technical users to upload datasets, perform preprocessing, and visualize complex statistical analyses like heatmap and distribution graph.
- Incorporated advanced data science techniques including "**K-means clustering**", "**PCA**", "**outlier detection**", and "**automated model selection**" for both "**Regression** and '**Classification problems**".

Vision Based Attendance System | *Python, Tenserflow, OpenCV, YoloV5, streamlit, Numpy*

- Designed a vision-based attendance system "**Haarcascade-frontalface model**" and "**cv2**" which is used to record the attendance without human effort. the project comprises of three steps.
- The face will be added in the dataset which are recorded by webcam.
- In second step, record the attendance of added face.
- display the attendance in csv format using "**streaamlit**".

Diamond Price Prediction | *Python, Numpy, Pandas, Matplotlib, Seaborn, Machine Learning Algorithm, Flask*

- Developed a machine learning model using "**Decision Tree Regressor**" algorithm that accurately predicts diamond prices with an average precision of "**95%**" based on extensive datasets comprising over 10,000 diamond records..
- Engineered a complex machine learning algorithm to predict diamond prices based on carat weight, cut, color, and clarity.

Technical Skills

Programming Languages: Python, SQL, C++
Machine Learning Regression Algorithms, Classification Algorithms, Clustering Algorithms
Deep Learning: ANN, CNN
Data Visualization Tableau, Matplotlib, Plotly, Seaborn, Bokeh
SkillsDSA, Problem Solving, Mathematics, OOPs
Tools: GIT, GITHUB, TensorFlow, Pytorch, Numpy, Pandas, Yolo, OpenCV, APIS, RAG

Certifications

- Coursera Machine Learning Specialisation
- INeuron Master In Data Science
- Fine tuning of LLMs by Deeplearning.AI