Ranjit Singh *Data Scientist (AI/ML/DL/NLP)*

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Profile

Experienced in AI , ML ,DL , NLP , PYTHON , SQL , NOSQL with 1 year of expertise in developing and implementing data driven based systems to improve accuracy and Skilled in analyzing and interpreting text data, researching and evaluating new NLP technologies, and collaborating with cross-functional teams to deliver innovative solutions. Seeking a challenging role in Data Science to apply technical abilities and contribute to a progressive organization.

Professional Experience

2022/05 – 2023/04
Bangalore, India

Data Scientist Intern (AI/ML/NLP)
Ineuron.ai Intelligence Pvt. Ltd. Bangalore

- Developed NLP models for topic modeling and multi-labeling data science solutions.
- Familiarity with version control systems such as Git. Experience with developmental tools and debuggers from the command line.
- Developed a predictive model using Supervised Xgboost to forecast insurance premium prediction; the model achieved 90% accuracy.
- Created data pipelines, tested and debugged code, built power bi dashboards , performed statistical analysis developed data driven web application.
- Developed and maintained NLP-based systems to detect and classify text, improving accuracy by 20% and reducing false positives by 15%.
- Developed and maintained NLP pipelines to process large volumes of text data, resulting in a 20% reduction in processing time.
- Deployed applications on AWS , AZURE and Heroku ,Railway using CI/CD pipelines.

Insurance Premium Prediction

- implemented an insurance premium price prediction web application using machine learning. Achieved 97% model accuracy by XGBoost. Deployed it on AWS with CI/CD pipeline.

Thyroid Disease Detection

- This project aimed to develop an intelligent system capable of accurately classifying Thyroid disease patterns using machine learning algorithms.
- Developed Adaboost algorithm with 96% accuracy. increased 7% accuracy to the earlier model.

2022/03 – 2022/04
Lucknow, India

Data Science Internship
Softpro India Computer Technologies Pvt. Ltd. Lucknow.

Old Bike Price Prediction

- Implemented a highly accurate Old Bike Price Prediction web application, achieving 98% accuracy with RandomForest. The application predicts the price of used bikes based on factors such as kilometers driven, bike age,bike power, bike brand, and bike condition.
- Deployed the project on AWS utilizing ci/cd pipeline.

Skills

Programming Languages and Databases
Java , Python , SQL , MongoDB , HTML , CSS.

Frameworks
Flask , FastApi , Bootstrap.

Machine Learning
Supervised , Regression , Classification ,Unsupervised , Clustering Kmeans , DBSCAN , Heirarchical Clustering.

Computer Vision
CNN, Object detection , YOLO , Image classification, GAN, image segmentation ,

IDE
Jupyter notebook, PyCharm, VScode , Notepade++.

Python Libraries
Pandas, Numpy, scikit-learn, Seaborn, Matplotlib, Flask,Tenserflow, Keras , NLTK , Hugging Face , Pytorch , OpenCV , PySpark ,

Developer Tools
Statistics , Power BI , Excel , Git , Github , Docker , Kubernetes , ci/cd , Web Scraping , Mlops .

NLP
Tokenization , Word Embedding , RNN , LSTM , GRU Transformers, NER, Text Extraction, Text Generation, Hugging Face , BERT , DISTILBERT.

Clouds
AWS , Heroku , Railway.

Education

2020/09 – 2023/08
Agra, Uttar Pradesh
Bachelor of Engineering in Computer Science Engineering
Institute of Engineering and Technlogy Agra.
Percentage 6.9%

2017/01 – 2020/07
Hathras, Uttar Pradesh
Diploma in Computer Science Engineering.
M. G. Polytechnic Hathras.

Projects

Text Suggestion Prototype
Aim :- Improve the accuracy of writing paragraphs.
- Developed NLP text suggestion prototype for autocomplete text. Successfully tested on Chrome search bar data.
- The training data passes through the training pipeline, with each operation executed sequentially. The training pipeline builds a LSTM NLP model with 96%. and execution report of this project save as a logs in AWS S3 bucket.

Chat Pattern Recognizing
Aim :- Recognize the chatting pattern.
- Chatting is an alternative communication method, but without facial impressions, it can be challenging to discern emotions solely from chat messages. To address this, I developed it ,that recognizes feelings with 88% accuracy by matching text patterns. The model can identify emotions such as joy, sadness, love, anger, and happiness.

Reverse Image Search
Aim :- Search the products on the portal by putting image of the product.
- Developed a web app where users can search for desired items by uploading their own images. My **CNN and ML** models then identify 5 similar images from a database I prepared for this project. The database consists of **45k** images representing various fashion collection items. The process involves the CNN model extracting features from the input image, which are then used by the ML model to find similar images.

Certificates

Full Stack Data Science
Ineuron.ai Bangalore
May 2022 - Jun 2023

Python With Data Science
Greatlearning
Sept 2021 - Oct 2021