Ranjit Singh *Data Scientist.*

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https://shorturl.ac/data-scientist

Profile

Experienced in PYTHON , AI , ML , DL , NLP , CV , 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.

Skills

- **Programing Language :-** Python, Java, SQL , HTML , CSS.
- **Databases :-** Mysql , Mongodb, Amazon Relational Database, Amazon S3,
- **Python Libraries :-** Pandas, Numpy, scikit-learn, Seaborn,Flask , Tenserflow , Pytorch , Keras , NLTK , Hugging Face , PySpark , OpenCV , Matplotlib, Scipy , statsmodel , Beautifulsoop , Autoacraper ,Transformers.
- **Web Frameworks :-** Flask, Streamlit , Bootstrap.
- **Tools :-** Power BI , Excel , Git , Github , Docker , ci/cd , Web Scraping , Mlops, Amazon sagemaker.
- **AI and Data Science :-** Machine Learning, Deep Learning , Natural Language Processing, Computer Vision, ANN, CNN RNN , Statistical Analysis, Predictive Modeling, Data Visualization, Data Mining and Cleaning, Exploratory Data Analysis , Pattern recognition , Time Series Analysis.
- **Machine Learning :-** Supervised , Unsupervised , Regression , Classification ,Clustering , Dimension Reduction, Time Series Analysis , Recommendation System.
- **NLP :-** RNN ,Tokenization , TFIDF , BOW , Word Embedding , LSTM , GRU , Chatbot Building , Transformers, NER, Text Extraction, Text Generation, Hugging Face, NLTK, Spacy , LLM Model, BERT , DISTILBERT.
- **Computer vision :-** CNN, Object detection , YOLO , Image classification, GAN, image segmentation.
- **Cloud :-** Amazon Web Services(AWS) , Heroku , Railway.
- **OS :-** Windows , Linux.

Professional Experience

Data Scientist Intern (AI/ML/NLP) 2022/05 – 2023/04

Ineuron.ai Intelligence Pvt. Ltd. Bangalore Bangalore, India

- 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.
- Implemented a predictive model using Supervised Xgboost to forecast insurance premium prediction; the model achieved 90% accuracy.
- Created data pipelines, tested and debugged code, construction of insightful Power BI dashboards, performed statistical analysis developed data driven web application.
- 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 17% reduction in processing time.
- Successfully deployed applications across AWS, Azure, Heroku, and Railway platforms, meticulously utilizing CI/CD pipelines for streamlined and efficient deployment workflows.

Data Science Internship 2022/03 – 2022/04

Softpro India Computer Technologies Pvt. Ltd. Lucknow. Lucknow, India

- Developed a robust time series sales prediction model that accurately forecasts the sales for the upcoming month based on historical data from the previous two months. The primary objective was to leverage time-dependent patterns and trends in the sales data to create a reliable forecasting, forecasted the sales estimation with 96.3% accuracy.

Projects

Reverse Image Search | Python, CNN, OpenCv, Pattern recognition, Resnet50, KNN, ML, Flask, AWS,
Aim :- Search the products on the portal by putting image of the product.

- Developed a search bar where users can search for desired items by uploading their own images. My **CNN and ML** models return 5 similar images as an output from a database that, 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.

Dnamic AI ChatBot | Python , Tensorflow , Keras , Bert , Cosine Similarity , NER , NLTK , Flask.
Aim :- Develope an AI-powered chatbot with exceptional flexibility and robustness, enabling easy customization of its behavior to meet diverse requirements with minimal effort.

- Developed NLP models to enable the chatbot to understand and respond effectively to user queries.
- Leveraged state-of-the-art AI methodologies to incorporate sentiment analysis and context awareness, enhancing the chatbot's conversational capabilities, as well as utilize the cosine similarity to respond effectively to user.
- Designed a user-friendly web interface that enabled non-technical users to interact with the chatbot and fine-tune its behavior by adjusting dataset parameters, no need to play with coding if chatbot behavior alteration required. project pipeline made the changes in chatbot behavior by determine the dataset parametes.

Text Suggestion Prototype | Python, Nltk, Keras, Tensorflow, LSTM , Re,
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.

Book recommendation system | Python, ML, Flask, Html, Css, Java Script, Recommender system
Aim :- Reducing the time of searching the books and suggests the user interested book..

- Developed a book store website integrated with a machine learning recommendation system. The system suggests similar books to users based on their interests to maximize the profit. Additionally Developed a user friendly website GUI. The website was deployed on AWS.

Insurance Premium Prediction | Python, ML, Flask, Sql, Aws, Docker.
Aim :- To develop a sophisticated insurance premium prediction system capable of accurately estimating insurance premium prices based on clients' individual conditions and risk factors.

- Implemented an insurance premium price prediction web application using machine learning. Achieved 97% model accuracy by XGBoost. Deployed it on AWS utilizing CI/CD pipeline.
- Reduced the client risk with 97% accuracy, and enhance the freedom to choose the most suitable EMI plan to the client.
- Code written in modular fashion, used object oriented python concepts.

Education

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

Diploma in Computer Science Engineering. 2017/01 – 2020/07
M. G. Polytechnic Hathras. Hathras, Uttar Pradesh
Percentage 6.9%

Certificates

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

Python With Data Science
Greatlearning
Sept 2021 - Oct 2021