

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

✉ smartengineer0786@gmail.com

☎ 9759194985

📍 HATHRAS , Uttar Pradesh

in <https://www.linkedin.com/in/ranjit-singh-423a051a6>

🌐 <https://github.com/Ranjit-Singh-786>

🖱 <https://portfoliowebsite-production-cbc5.up.railway.app/>

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 📄 | Python, ML, Flask, Sql, Aws, Docker.

- 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.
- Code written in modular fashion, used object oriented python concepts.

Thyroid Disease Detection 📄 | Python, ML, Flask, Sql, Aws, Docker.

- This project aimed to develop an intelligent system that capable of accurately classifying Thyroid disease patterns using machine learning algorithms.
- Developed web application and trained **Adaboost** ML 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 📄 | Python, ML, Flask, Sql, Aws, Docker.

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

Education

2020/09 – 2023/08 Agra, Uttar Pradesh	Bachelor of Engineering in Computer Science Engineering <i>Institute of Engineering and Technology Agra.</i> Percentage 6.9%
2017/01 – 2020/07 Hathras, Uttar Pradesh	Diploma in Computer Science Engineering. <i>M. G. Polytechnic Hathras.</i> Percentage 6.9%

Projects

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 bucket.

Chat Pattern Recognizing | Python, Tensorflow, Keras, Nltk, RNN, Flask, BERT, LSTM.

Aim :- Recognize the chat pattern and detect the felling from the chat message.

- 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 | 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 utilizing cosine similarity.

Certificates

Full Stack Data Science

Ineuron.ai Bangalore
May 2022 - Aug 2023

Python With Data Science

Greatlearning
Sept 2021 - Oct 2021