Animesh Singh

Data Scientist

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Website | Linkedin

Education

B.Tech in computer science and Engineering
Galgotias University,Noida
2020-2024

- Excelled in machine Learning and Data science Coursework
- Developed an Image Encryption System by using AES to enhance Data Security

Technical Skills

- **Programming Languages:** Python, SQL,HTML,CSS
- **Data Manipulation & Visualization:** Numpy, Matplotlib, Seaborn,Power BI,Pandas, feature Engineering,EDA
- **Mathematics for ML/DL** statistics ,Algebra,calculus,Matrices
- **Python Packages &frameworks** scikit-learn,Scipy,Tensorflow,keras,CV , Beautiful Soup
- **ML/NLP/DL** Supervised,Unsupervised Learning, Model Evaluation,RNN,CNN NLP
- **MLops Tools** MLflow, Jupyter ,collab ,CI/CD, AWS,Azure
- **Databases:** mySQL , Google Firebase

Soft Skills

- Critical Thinking
- Problem Solving
- Communication
- Adaptability

Certification

- **Microsoft Learn Skill AI Challenge** Microsoft,july 2023
- **Python Essentials** Cisco,june 2023
- **Database and SQL** Infosys, 2023
- **Data Analysis-powerBI and SQL** Lagozon pvt ltd.,2023

Languages

- **English**

About Me

I am data science specialist with a track of extracting actionable insights from complex datasets. Successfully developed predictive models, reduced churn by 15%, and optimized operations for 20% cost reduction. Adept at presenting technical findings to non-technical stakeholders, ensuring informed decision-making.

Internship-Training

Data Analyst Intern — June 2023 -July 2023
Lagozon Tech pvt ltd

Project Intern — july 2023
iNeuron.AI

Data Science Intern — JULY- August 2023-
Codsoft pvt ltd

Projects

- **Multi-Diseases Prediction AI**
  -> Developed and implemented highly accurate heart,liver,kidney,diabetes disease prediction models using **Jupyter** , reducing misdiagonoses by **20%** and improving patient outcomes.
  -> Achieved improved disease detection accuracy **exceeding 90%** providing users with actionable insights for informed health decisions using visualizations tool **seaborn,Matpltlib**

- **Recommendation Systems - Movies and Books**
  -> Engineered **recommendation** engines for movies and books, achieving a precision rate above **95%**; empowered users with accurate suggestions using **collaborative filtering** and content-based techniques,
  -> Achieved real-time items updating, resulting in a **40% reduction** in user wait times and **enhancing** user experience.

- **Youtube video Sentiment Analysis**
  -> Employed **NLP** preprocessing for accurate sentiment analysis, developed a scoring methodology and insightful **visualizations** to depict **sentiment** trends, showcasing actionable insights, integrated **CI/CD** for automated code testing and **deployment**, and utilized **MLflow** to effectively manage ML lifecycle.
  -> In result,youtubers Contents engagement **increases** by 90%.

- **Facial Emotion Recognition**
  -> Developed a facial emotion recognition system leveraging **TensorFlow** and **Keras**, accurately predicting emotions from images; equipped with real-time **video** analysis for immediate emotion detection with the help of **openCV** libraries
  -> solves **challenges** in mental health assessment enabling immediate emotion detection and resulting in a 50% reduction in processing time.

- **Image Captioning with Neural Networks**
  -> Develop an image captioning system using **TensorFlow and Keras.** Preprocess images, tokenize captions, and build an **LSTM/GRU** encoder-decoder architecture. Extract image features with a **CNN**, incorporate attention mechanism, and train using categorical cross-entropy. Evaluate with metrics like **BLEU/METEOR,** visualize attention.
  -> saves 80% time of user to think about caption for image or in video image