RAVI PRATAP

Data Scientist India

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Education

- PG-Diploma in Big Data Analytics

  Sunbeam Infotech Private Limited (CDAC)

  2021 Pune

  CDAC provided expertise in Big Data technologies, Analytics, Machine Learning, programming languages, and cloud computing, and enhanced collaboration skills.

- Btech in Computer Science Engineering

  Greater Noida Institute of Technology (AKTU)

  2019 Delhi

TECHNICAL STACK

- Data Science | Machine Learning | Deep Learning | Natural Language Processing | Computer Vision | Time Series Analysis

  Python, OpenAI, Hugging Face, Data Visualization, Supervised Learning and Unsupervised Learning, Generative AI Predictive Modeling, Bagging and boosting, Linear and Logistic Regression, CNN, RNN EDA, Feature Engineering, Feature Selection & extraction, Hyperparameter optimization. OpenCV, Object Detection, Object Classification, Object Segmentation, Probability, Statistics

SUMMARY

With a background in computer science and 2.6 years of experience, I excel as a Data Scientist. I proficiently use Data Analytics, Machine Learning, NLP, Computer Vision, Deep Learning, Generative AI, and LLM to address challenging business problems. My CDAC Big Data Analytics training strengthens my ability to manage large datasets. I'm committed to offering actionable insights for business growth and enhanced customer experiences

PROFESSIONAL EXPERIENCE:

Data Scientist August 2022 - Present
Revoquant AI Gurugram, India On-site

- INFRARED(Product)

  Developed an innovative solution leveraging Hugging Face's libraries, OpenAI's Language Model (LLM) and unsupervised machine learning techniques to enhance audit, fraud detection and deployed the solution using AWS EC2-ECR instance with CI/CD pipelines using GitHub actions.

  Interactive Chatbot Interface: InfraBot

  Developed an interactive chatbot interface using models text-davinci-003, LLaMa2 to provide users with a user-friendly way to interact with the system. The chatbot can answer queries related to audit processes, fraud detection methodologies, and data analysis techniques, enhancing user experience and accessibility.

  PDF and Excel Data Querying using LLM

  Integrated OpenAI's Language Model (GPT-3) and Hugging Face's libraries like (google/flan-t5-xxl) to create a powerful PDF and Excel querying system. This feature enables the system to extract and process information from unstructured PDF documents and Excel spreadsheets, facilitating efficient data analysis and validation.

  Video-to-Text Transcription with Whisper

  Utilized OpenAI's Whisper to convert audio content from videos into accurate text transcripts. This transcription process enhances the comprehensiveness of data available for analysis and audit purposes, improving overall accuracy.

- Anomaly Detection using Unsupervised Machine Learning

  Implemented unsupervised machine learning algorithms to identify anomalies in financial and transactional data. Employed techniques like Isolation Forest, DBSCAN, to automatically detect unusual patterns and potentially fraudulent activities.

- Frameworks and Python Packages

  LangChain, NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn, Tensorflow, PyTorch, Keras, Feature engine, Category Encoders, nltk , Web Scraping, Streamlit, Flask

- Programming Languages

  Python, C Programming , HTML, CSS, Javascript, SQL

- Databases

  MySQL, MongoDB

- Big Data and Other Tools

  Hadoop, Spark, Tableau, PowerBI, Git, Canva, Excel, KNIME

- Cloud Deployment

  AWS EC2-ECR, AWS elastic beanstalk,GCP, Heruko, Github

COURSE AND CERTIFICATIONS

- Machinelearning.ai - Machine Learning Specialization,) Python
- Deeplearning.ai - Deep Learning Specialization
- Deeplearning.ai - Natural Language Processing Specialization
- CS25: Transformers United
  CS231n: Deep Learning for Computer Vision - Standford University,

- Inventory Detection

  Developed a smart fix using YOLOV8 to help Coca-Cola tally non-Coca-Cola products in their fridges and to check and verify the accuracy of their inventory.

- 4ToSS(Product)

  Leveraged advanced analytics and machine learning techniques to improve operational efficiency and drive better business outcomes.

  Developed a process mining tool using Exploratory Data Analysis and Machine Learning algorithms to optimize the process from purchase requisition to invoice verification and identify the happy path of the product life cycle.

  Conducted date and capacity planning using data analysis techniques and machine learning algorithms to optimize the timeline and capacity of the machines involved in a machine project.

  Created Power BI plots of sales to aid in production planning and inventory control, and made informed decisions about production planning and inventory control to reduce waste and optimize inventory levels.

PROFESSIONAL EXPERIENCE:

AI/ML Engineer
XCaliber Infotech Pvt. Ltd.

April 2021 - August 2022
Pune, India On-site

- Humming Bird (AT&T)

  Developed a predictive model using Machine Learning techniques such as Random Forest and Gradient Boosting, Time Series techniques such as Arima and LSTM, and Sentiment Analysis to forecast inventory for reverse logistic and predict prices for B2B and B2C markets.

  Utilized Time Series techniques such as Arima and LSTM for inventory and price forecasting, which enabled the identification of patterns, trends, and outliers in the data.

  Incorporated Sentiment Analysis techniques such as BERT to analyze customer feedback and social media sentiments, and used it as a feature to adjust the price predictions, resulting in an improved pricing strategy.

  Developed an Object Detection Model using Yolo and ResNet-UNet for accurate cosmetic grading of smartphones and integrated it into the refurbishing process to improve efficiency and accuracy

MACHINE LEARNING POCS

- Designed and developed a machine learning model to predict stock prices using historical data, financial news, and feature engineering techniques (ARIMA, LSTM, Random Forest) with performance evaluation (mean squared error, accuracy).
- Developed an Optical Measurement System to calculate the length of pipes captured by a drone using image processing and computer vision techniques.
- Utilized a drone camera to capture images of the pipes, and applied image processing techniques such as image enhancement, feature extraction, and object detection to analyze the captured images.