RAVI PRATAP

Data Scientist India

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 Personal Portfolio

 Github

 LinkedIn

Education

- **PG-Diploma in Big Data Analytics**
  Sunbeam Infotech Private Limited (CDAC)
  2021   Pune

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

- Btech in Computer Science Engineering
  Greater Noida Institute of Technology (AKTU)
  2019   Delhi

SKILLS

- **Data Science | Machine Learning | Deep Learning | Natural Language Processing | Computer Vision | Time Series Analysis | Generative AI | LLM**

  Supervised and Unsupervised Learning, Linear and Logistic Regression, Bagging, boosting, CNN, RNN, Feature Engineering, Feature Selection, OpenCV, Object Classification, Probability, Statistics

SUMMARY

With a background in computer science and 2.6 years of experience, I excel as a Data Scientist. I proficiently use Machine Learning, Deep Learning, NLP, 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 :

Senior Data Scientist	August 2022 - Present
Revoquant AI	Gurugram, India

- **INFRARED(Product):**
  - Developed a solution utilizing Hugging Face's libraries and OpenAI's Language Model (LLM).
  - Fine-tuned using transformer architecture on a custom dataset using QLoRA to improve its performance on the specific tasks .
  - Deployed solution using Flask on AWS EC2-ECR instance with CI/CD pipelines via GitHub actions.

  Interactive Chatbot Interface: InfraBot:
  - Created a chatbot interface using text-davinci-003 and LLaMa2 models.

  PDF and Excel Data Querying using LLM:
  - Integrated OpenAI's GPT-3 and Hugging Face's (google/flan-t5-xxl) for unstructured documents like PDF and Excel data extraction.

  Video-to-Text Transcription with Whisper:
  - Utilized OpenAI's Whisper to accurately transcribe audio content from videos.

  Anomaly Detection using Unsupervised ML:
  - Implemented Isolation Forest, local outlier factor, and other unsupervised algorithms for anomaly detection.
  - Identified irregular patterns and potential fraudulent activities in financial and sales data.

Programming Languages

Python, C Programming , HTML, CSS, SQL

Databases

MySQL, MongoDB

Frameworks and Python Packages

NumPy, Pandas, Matplotlib, Plotly, Scikit-Learn, Tensorflow, PyTorch, Keras, nltk , Web Scraping, Streamlit, Flask, LangChain, Hugging Face

Big Data and Other Tools

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

Cloud Deployment

AWS EC2-ECR, AWS SageMaker, Heruko, Github

COURSES AND CERTIFICATIONS

- Machinelearning.ai - Machine Learning Specialization

- Deeplearning.ai - Deep Learning Specialization

- Deeplearning.ai - Natural Language Processing Specialization

- CS25: Transformers United CS231n: Deep Learning for Computer Vision - Standford University,

- **4ToSS(Product):**
  - Created process mining tool with Exploratory Data Analysis to Optimized purchase-to-invoice process, identifying optimal workflow.
  - used data analysis for precise date and capacity planning to Enhance timelines and resource allocation.
  - **PowerBI Sales Plots and Inventory Control:**
  - Generated Power BI sales plots for effective production planning and inventory management.

- **Inventory Detection Project:**
  - Developed a smart fix using YOLOV8, ResNet to help Coca-Cola tally non-Coca-Cola products in their fridges and to check and verify the accuracy of their inventory.

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PROFESSIONAL EXPERIENCE II :

AI/ML Engineer	📅 April 2021 - August 2022
XCaliber Infotech Pvt. Ltd.	📍 Pune, India

- **Humming Bird (AT&T):**
  - Developed predictive model using Arima, Random Forest, LSTM, and Sentiment Analysis.
  - Incorporated Sentiment Analysis (BERT) to refine price predictions using customer feedback and social sentiments.
- **Object Detection Model for Smartphone Grading:**
  - Engineered YOLO and ResNet-UNet model for precise smartphone cosmetic grading.
  - Integrated model into refurbishing process, boosting efficiency and grading accuracy.

- **MACHINE LEARNING POCS:**
  - Designed and implemented stock price prediction model using historical data, financial news, and feature engineering (ARIMA, LSTM, Random Forest).
  - Evaluated model performance using mean squared error and accuracy metrics.
- **Optical Measurement System for Drone-Captured Pipes:**
  - Build an Optical Measurement System for pipe length calculation using image processing and computer vision.
  - Applied image enhancement, feature extraction, and object detection techniques to drone-captured pipe images.