
YUGAL PATIL

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Professional Summary

Results driven Data Scientist skilled in AI, ML/DL, NLP, and Computer Vision, with hands-on experience in LLMs and RAG pipeline development. Adept at building data driven solutions using Python and TensorFlow to transform insights into intelligent, automated systems.

Work Experience

Brain Vision Technology

Jan 2023 – Present

Position :- Data Scientist

- **Statistical and Predictive Modeling:** Designed machine learning and deep learning models, including neural networks, to solve complex business problems.
- **Computer vision:** Used YOLO for **motion detection and safety gear monitoring** system triggers real-time alerts if a person enters restricted zones or lacks safety equipment.
- **Chatbot Development:** Built **OCR + NLP-driven chatbot** to extract and summarize multi-file content, reducing manual effort by 40%.
- **Revenue Prediction:** Delivered a **revenue prediction system** with >90% accuracy, optimizing client financial planning.
- Enhanced project architecture using **Docker containers** for reproducibility and scalable deployment.

KindleTech Labs

June 2022 – Nov 2022

Position :- Data Scientist Intern

- Assisting in the design and deployment of **ML models for anomaly detection and telecom network failure prediction**.
- Supporting **data preprocessing, feature engineering**, and creation of labeled datasets from log and alarm data.
- Contributing to **RAG pipeline design** for telecom troubleshooting chatbots using **transformer models and embeddings**.
- Involved in **LLM fine-tuning** for summarization and domain-specific Q&A tasks.

Aivariant

Dec 2021 – May 2022

Position :- Data Analyst Intern

- **Data Collection & Cleaning:** Utilized **Python** and **Pandas** for data **preprocessing**, improving data quality and reducing manual effort by 20%.
- **Exploratory Data Analysis (EDA):** Conducted EDA using **Matplotlib** for **visualization**, uncovering **trends, patterns**, and anomalies to provide actionable insights.
- **Collaboration & Ideation:** Actively participated in team meetings, contributing ideas to improve processes and data-driven decision-making.
- **SPSS-like Statistical Desktop App:** Developed a data analysis desktop tool using **Django, Flask, and REST API**, offering data visualization, statistical computation, and user-friendly dashboards.
- **Insights for Decision-Making:** Delivered analysis that enhanced operational efficiency and informed strategic decisions.

Education

- 2021 North Maharashtra University
M.Sc. (Statistics)
CGPA : 68.92 %
- 2019 Pratap College, Amalner
B.Sc. (Statistics)
CGPA : 61.98 %

Technical Skills

- **Core Competencies:** Artificial Intelligence, Generative AI (GenAI), Large Language Models (LLM, ARM, MLM, BERT, RAG, ChatGPT), Computer Vision, Statistics, Exploratory Data Analysis (EDA), Feature Engineering, Machine Learning, Deep Learning, Neural Networks, Natural Language Processing (NLP), Model Deployment, Time Series Analysis, Anomaly Detection.
- **Machine Learning & AI:** Supervised & Unsupervised ML, Deep Learning, Neural Networks, NLP, LLMs (BERT, GPT, RAG, ChatGPT), Computer Vision (YOLO, CNNs), Generative AI
- **Tools & Platforms:** Docker, Power BI, Tableau, Jupyter Notebook, VS Code, Microsoft Excel
Databases: PostgreSQL, SQLite
- **Other Skills:** EDA, Feature Engineering, Model Deployment, Anomaly Detection, Time Series Forecasting, Statistical Analysis, REST API Development

Certification

- Certified **Data Scientist** from ExcelR.
- I have done **Data Analyst training course** from ShapeAI.

Academic Project

- Project on **"Price Prediction of Onion"** at B.Sc. level. Purpose: To develop market oriented mindset of agricultural producers (farmer).
- Project on **"Time series analysis of cancer cases in India"** at M.Sc. level. Purpose: To generate reliable data on the magnitude and patterns of cancer. By using time series tools such as time series model and plots, trend analysis.

Achievement

- Participated in District Level (Phase-I) **"Avishkar"** reached in University Level (Phase-2) Power Point Presentation at T.Y. B.Sc.
- Got Consolation prize in Statistics **"Poster Competition"** at University Level at T.Y. B.Sc.
- Participated in **"PG Technologia"** (University level Power Point Presentation Competition) at M.Sc.

Extra-curricular Activities

- Government Certification in **"Computer Typing Basic Course"** (GCC-TBC English 30 wpm) in "A" Grade.
- Participated in "Elementary and Intermediate" Grade Drawing Examination.
- Participated in "Badminton" Zonal level.