YUGAL PATIL

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Professional Summary

Data science professional with expertise in statistics, machine learning, and deep learning. Skilled in solving complex problems, delivering actionable insights, and driving organizational success through data-driven solutions.

Work Experience

Brain Vision Technology   06/2022 – Present
Position :- Data Scientist

- **Data Handling & Analysis**: Proficient in importing, exporting, analyzing, and cleansing datasets, leveraging Python and SQL for efficient workflows.
- **Statistical and Predictive Modeling**: Designed machine learning and deep learning models, including neural networks, to solve complex business problems.
- **Neural Networks**: Developed and implemented neural network architectures for predictive modeling and pattern recognition tasks, improving model accuracy and reliability.
- **Chatbot Development**: Built an OCR and NLP-driven chatbot to extract and summarize multi-file content, focusing on salary details, improving operational efficiency.
- **Revenue Prediction**: Predicted client revenue generation one month ahead with >90% accuracy by analyzing six months of daily data, optimizing financial planning.
- **Data Visualization & Communication**: Created actionable dashboards and reports using tools like Tableau and Power BI for stakeholder decision-making.

Aivariant   12/2021 – 5/2022
Position :- Data Scientist 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.
- **Insights for Decision-Making**: Delivered analysis that enhanced operational efficiency and informed strategic decisions.

Hands-on Experience

- **Clustering for "Analysis of Global Development Measurements"**:
  - Performed clustering analysis to explore global development metrics and derive actionable insights.
  - Assisted in building predictive models using Scikit-learn and conducting statistical analyses to support business forecasting and optimization.
- **SQL for "Analysis of IMDB" Using Python**:
  - Utilized SQL and Python (sqlite3, Pandas) to analyze IMDB data effectively.
  - Established database connections, executed complex SQL queries, and

integrated results into Python workflows for in-depth analysis.
- **Artificial Neural Network (ANN) for "Red Wine Quality"**:
  - Developed and trained an ANN model using TensorFlow to predict wine quality, achieving a **10% improvement in accuracy** through advanced feature engineering techniques.

Education

2021   North Maharashtra University
        M.Sc. (Statistics)
        CGPA : 68.92 %

2019   Pratap College, Amalner
        B.Sc. (Statistics)
        CGPA : 61.98 %

Technical Skills

- **Programming Languages**: Python (NumPy, Pandas, Scikit-learn, TensorFlow, Keras), R, MySQL, Minitab, C++.
- **Data Science Tools**: Jupyter Notebook, VS Code, Microsoft Excel, Power BI, Tableau.
- **Core Competencies**: Statistics, Exploratory Data Analysis (EDA), Feature Engineering, Machine Learning, Deep Learning, Neural Networks, Natural Language Processing (NLP), Model Deployment, Time Series Analysis.
- **Web Frameworks**: Streamlit, Django.

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). Using Multiple linear regression model for predicting price of onion in Minitab
- 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 and forecasting cases using Minitab software.

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.