Prince Kumar

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PROFESSIONAL SUMMARY

➢ Experience in design and development of **dashboards** and **reports** pertaining to various business domains like **Finance**, **Healthcare**, **Manufacturing**.

➢ Extensive experience in doing **Data Analysis, Cleaning**, **Exploratory Data Analysis**, **Feature Engineering**, **Feature Transformation**, **Feature Selection** as well as developing and deploying solutions via **Rest Web services**.

➢ In depth mathematical understanding in **Linear algebra**, **Calculus**, **Statistics**, **Probability**.

➢ Experience working with unstructured data like images, text data to perform task like **image localization**, **object detection** and **transfer learning**.

➢ Advance **engineering** skills in **designing, developing, productionizing and maintaining** AI solutions using best practices and cloud tools like **Docker, Cloud Functions**.

➢ Hands on exposure with **SQL** for efficient data retrieval and transformation and **python** for building scalable application and deploying solutions in production.

Technical Summary

- **Programming**: Python, SQL
- **Framework**: TensorFlow, Keras
- **Databases**: MySQL, Oracle SQL
- **Devops Tools**: Docker
- **Operating System**: UNIX, Windows
- **Analytics Tool**: Sklearn, Ntlk, Pandas, NumPy, SciPy
- **Statistics**: Descriptive Statistics, Inferential Statistics, Predictive Statistics
- **Visualization Tools**: Matplotlib, Seaborn, Oracle Data Analytics Desktop
- **Data science**: Machine Learning, DeepLearning, CV, NLP, Statistical Modelling, Oracle Machine Learning (OML)
- **Cloud Technology:** Oracle Data Science Cloud, Oracle Analytics Cloud

Professional Qualification and Certifications

- Problem Solving Data Structure and Algorithm (Advanced) by **HackerRank.**
- Master Python for Data Science by **Oracle LinkedIn Learning**.
- NLP with Python for Machine Learning by **Oracle LinkedIn Learning**

Education

PGD, Data Science FEB 2021-Present University of Hyderabad, Hyderabad Telangana

B. tech, Computer Science 2015-2019 Cochin University of Science and Technology

Professional Experience

Oracle Corporation (Global Business Unit), Solution Engineer, July 2019 - Present

Tata Consultancy Services (TCS), Data Science Intern, May 2018 – Dec 2018

Professional Projects

Telehealth Services

- Designed and developed a real time dashboard for monitoring patients' medical data like Ejection Fraction, ECG images, Potassium level, Heart Rate.
- Cleaned and Preprocessed 1 million FHIR medical data records.
- Technologies used : **Python**, **SQL**, **Oracle DVD** and **Oracle BI**

Smart City Solution

- Designed and Developed **Convolutional Neural Network (CNN)** models for pothole detection on the roads and helmet detection in construction sites.
- Technologies used : **Python** ,**YOLO framework, TensorFlow, Keras**.

Analysis of Service Performance

- Developed dashboards for the analysis of Service Performance.
- Dashboards include reports and visualizations showing Service Metrics, Maintenance Metrics, Customer Performance.
- Technologies used: **Oracle Analytics Cloud (OAC)**,**Enterprise Performance Management (EPM)**

Semiconductor Manufacturing -Data Analysis

- Created a set of analytics dashboards which can be utilized by the semiconductor product/process personnel and by the managers who are responsible for manufacturing.
- Developed a clustering model to analyze the root cause of defects in semiconductor chips.
- Technologies used: **Python**, **Oracle SQL**, **Scikit-learn**, **Pandas**, **NumPy**,**Matplotlib** and **Oracle Machine Learning (OML)**

Personal Projects

Project- "Heart Risk Assessment"

• Designed and developed a machine learning model using **Logistic Regression** and **Random Forest** algorithms that can predict risk of developing coronary heart disease (CHD) and was able to achieve a **Precision of 0.90 and Accuracy of 0.87.** Github

Project- "Recommendation Systems"

• Implemented various type of Recommendation Systems such as Content Based, Correlation Based, Popularity Based and Classification Based for suggesting movies based movies data and users demographic data. Github

Project- "Article and Review Tagging"

• Implemented the KNN (K-Nearest Neighbor) algorithm from scratch and trained the KNN classifier on review and article text data to predict the categories of Reviews and Articles.
• Achieved **Accuracy score of 0.90.** Github

Project- "House Price Prediction"

• Trained a Random Forest Regression model to predict the house prices based on different parameters such location, area of the house. Github