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🐙 [Github](#)

📁 [Portfolio](#)

Technical Skills

Skills: Python, SQL, PySpark, NLP, Machine Learning

Visualization Tools: Tableau, Power BI

Other Skills: Data Analysis, Data Mining, Model Deployment, API Development, AWS, JIRA

Experience

Centre for Integrative Omics Data Science (CIODS)

February 2023 – October 2024

Data Scientist

Mangalore, Karnataka

- Created an XGBoost model to predict Type 2 Diabetes using metabolite profiles, enhancing accuracy by 27% over baseline models through rigorous data cleaning, feature engineering, and iterative model training.
- Designed and built scalable data pipelines for head and neck cancer research, leveraging NLP techniques to analyze extensive datasets and construct a specialized database, resulting in a 40% reduction in data processing time through advanced data engineering and optimization strategies.
- Partnered with cross-functional teams to integrate machine learning models into data-driven decision-making processes, achieving a 50% reduction in processing time and boosting research efficiency through advanced analytics and algorithm optimization.
- Engineered and refined an NLP-based chatbot for interactive communication, applying vectorization techniques and semantic analysis to boost user engagement by 25% through enhanced natural language understanding and machine learning methods.

Knowledge Solutions India (Affiliation with Microsoft)

February 2021 – April 2021

Machine Learning Intern

Remote

- Developed and optimized an insurance cost prediction model using various machine learning algorithms, achieving a 15% improvement in prediction accuracy compared to legacy models through advanced model tuning and hyperparameter optimization.
- Conducted thorough accuracy assessments and model validation, utilizing cross-validation and performance metrics (such as accuracy, F1-score, precision, and recall), improving the model's accuracy by 10-15%, contributing to a noticeable increase in stakeholder confidence and supporting more reliable decision-making for business operations.
- Acquired comprehensive expertise in machine learning techniques, including model selection, training, and evaluation, enhancing overall project efficiency and effectiveness.

Education

Visvesvaraya Technological University

July 2019 – August 2023

Bachelor of Engineering in Computer Science - 8.53 CGPA

Moodbidri, Karnataka

Projects

Data Exploration in SQL | *SQL Server*

- Conducted data exploration of the COVID-19 dataset in SQL Server to identify trends, patterns, and insights.

Diabetes Analysis and Suggestions | *Tableau*

- Performed a comprehensive analysis of diabetes data using Tableau, uncovering patterns and trends.

Email Spam Classifier | *Python, Naive Bayes, Flask, Render*

- Developed an email spam classifier using a Naive Bayes model to filter spam emails.
- Trained the model on extensive data and deployed it with Flask and Render to streamline email management.

Rossmann Sales Forecasting | *Python, Machine Learning*

- Enhanced forecasting accuracy by incorporating time series features and external data sources, leading to a 15% increase in forecast precision and greater reliability in business decision-making.
- Applied various techniques to fine-tune the model, addressing challenges and improving prediction performance.

Mushroom Classifier | *Python, RandomForest, XGBoost*

- Achieved 98.439% accuracy in poisonous mushroom classification using Ensemble RandomForest and XGBoost.

Publications

- Tyr352 as a predominant Phosphosite in the understudied Kinase and Molecular Target, HIPK1: Implications for Cancer Therapy - [Link](#)
- OBLIVIOUS: The Unseen Guide - [Link](#)