SATWIKA SRIRAM
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EDUCATION

Master of Science in Computer Science, Illinois Institute of Technology, Chicago, USA **Jan 2024 - Present**
Coursework: Advanced Database Organization, Machine Learning, Information Retrieval, Data Mining, Data Preparation and Analysis **GPA:4.0**

Bachelor of Engineering in Computer Science, Visvesvaraya Technological University, Bangalore, India **Aug 2013 - Jul 2017**
Coursework: Data Structures and Algorithms, Web and application programming, Computer Networks, DBMS

TECHNICAL SKILLS

Data Science/Machine Learning: Statistical Analysis, Predictive Modelling, Ensemble Methods, EDA, Computer Vision, Image Processing, NLP.
Python Packages: Pandas, Numpy, Matplotlib, Scikit-learn, PyTorch, Keras, Tensorflow, NLTK.
Web Technologies: HTML, CSS, Javascript, AJAX, Flask.
Programming Languages: Python, R, Java, SQL, Nosql, Oracle PL/SQL, Oracle SQL, HTML, CSS, Javascript.
Database: Oracle Database 11g, MySql, MongoDB, SQL Server, PostgreSQL.
Tools: Oracle Apex, SQL Developer, Putty, WinSCP, ORDS, Oracle Forms Developer.
Other Technologies: Oracle WebLogic, Oracle Enterprise Manager, MS Office, Tableau
Migration Tools: Git**,** Oracle Data Integrator, PL/SQL Developer.

EXPERIENCE

Accenture, Bangalore, India **Oct 2017 - May 2022**

Application Development Senior Analyst

Client : Siemens, USA

• Developed machine learning models using Python, TensorFlow for predictive analytics projects.
• Executed data wrangling and exploratory analysis, utilized feature engineering, and applied model evaluation techniques, increasing model accuracy by **15%.**
• Developed and maintained sophisticated data solutions, promoting best practices that boosted operational efficiency by **25%.**
• Partnered effectively with multiple teams to align data science initiatives with organizational goals, increasing stakeholder engagement by **40%.**
• Orchestrated end-to-end data handling from collection to visualization, enhancing data cleanliness and analytics efficiency, resulting in a **20%** increase in data usability.
• Recipient of the **Siemens On-Spot Award**, recognized by the Siemens leadership team for consistent performance.

Application Development Analyst

Client: Merck, Germany

• Analyzed commercial data to uncover insights, supporting data-driven decisions that increased operational efficiency by **18%.**
• Developed various Tableau and Custom SQL extracts for report creation, enhancing report accessibility and user interaction by **25%.**
• Applied best practices in Tableau to optimize and maintain reports, resulting in a 30% reduction in load times and **20%** improvement in user satisfaction.
• Integrated SQL best practices to enhance the efficiency of queries for Redshift extracts, decreasing query response times by **40%.**

Application Development Associate

Client: Pearson, USA

• Enhanced data collection systems, integrating student records and survey data, resulting in a **30%** reduction in data retrieval times.
• Utilized statistical analysis to derive trends from academic datasets, leading to a **15%** increase in the effectiveness of educational programs.
• Generated critical academic reports for decision-making, boosting report generation efficiency by **25%**.
• Partnered in predictive modeling initiatives that forecasted student performance, maintaining over **60%** accuracy in data integrity.

PROJECTS

Sentiment Analysis of Social Media for Brand Perception: **June 2023**
Analyzed social media posts to gauge public sentiment towards a hospitality brand. Employed NLP and sentiment analysis to classify posts and provide insights about brand, loyalty programs and help to refine marketing strategies.

Sales Forecasting Using Time Series Analysis: **Aug 2023**
Analyzed historic sales data of Walmart using Python and predicted future sales with enhanced forecasting accuracy by 30%. Optimize inventory management forecast with significant reduction of overstocking and understock.

Predictive Modeling for Customer Retention: **Dec 2023**
Developed a predictive model using Python and Scikit-Learn, employing logistic regression and random forest algorithms, coupled with feature engineering, to identify high-risk churn customers for a telecom company. Enhanced model accuracy to 75%, enabling targeted interventions that successfully reduced customer churn by 20%.

Web Crawling and Search Engine Project: **Mar 2024**
Engineered a robust web crawling and search processing system. Implemented a Scrapy crawler for efficient web document retrieval. Utilized Scikit-Learn to construct inverted indices with TF-IDF weighting and cosine similarity for accurate search result ranking.

CIFAR-10 Image Classification Project: **April 2024**
Developed and evaluated advanced deep neural network models for image classification, focusing on optimizing network architectures and training methodologies to improve accuracy and generalization across image sets.