Nahid Mozhdehi

Data Scientist / ML Engineer

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**Results-driven Data Scientist with extensive experience in Oracle, SQL, Python, and Python libraries such as Pandas, NumPy, and Scikit-learn. Demonstrated expertise in transforming complex data into actionable insights, optimizing business processes, and enhancing decision-making capabilities. Strong analytical and critical thinking skills with a proven track record of providing training and support to business users, ensuring effective utilization of data science tools.**

**Summary**

* **Master of IT** from high ranked university with 8 years of experience in BI, database and data science.
* Skilled in developing data science models using Python libraries like Pandas, NumPy, Scikit-learn, NLP (**NLTK**, **SpaCy**), RL (**OpenAI** Gym), and DL (**TensorFlow**, **Keras**).
* Expert in SQL programming with extensive experience working with **SQL Server**, **Oracle,** PostgreSQL and MySQL.
* Proficient in Azure Machine Learning, Azure Databricks, and **Microsoft Fabric** for building, deploying, and managing ML models and data pipelines.
* Innovative, critical thinker and **creative problem solver.**
* Effective **communication** and **collaboration** skills.

# Selected Achievements

* Deployed **machine learning** models for detecting suspicious activities, improving prediction accuracy by 25% and enhancing decision-making.
* Developed a **chatbot** for a financial services company, automating customer interactions and inquiries, driving efficiency and reducing response time by 30%.
* **Optimized** long-running SQL query, reducing processing time from 12 minutes to 1 minute, enhancing efficiency and user experience.
* Developed **ETL** processes to automate manual tasks, driving efficiency and cost savings.
* Directed the **migration** of SSRS reports to Power BI, enhancing efficiency by 30% and increasing user satisfaction.

# Skills

Scikit-learn NumPy Pandas PyTorch NLTK SpyCy

TensorFlow Keras Matplotlib PyPlot Power BI SQL

Microsoft Fabric SageMaker

# Work Experience

**Data Scientist / CrowdDoing – Remote Feb 2024 – Present**

* Conduct in-depth research on the impact of diet on mental health, analyzing how different foods influence mood, cognitive function, and overall mental well-being.
* Implement data-driven studies to identify correlations between nutritional intake and mental health outcomes, providing actionable insights for dietary recommendations.
* Develop predictive models to assess the influence of various dietary patterns on mental health, aiding in the creation of personalized nutrition plans to improve psychological health.
* Analyze the impact of medicinal foods on patient health outcomes using machine learning and GenAI, optimizing dietary recommendations and enhancing treatment efficacy by 25%.
* Create interactive dashboards with ML-driven insights to visualize the correlation between medicinal food intake and mental health improvements, aiding clinicians in making data-driven decisions, resulting in a 15% increase in treatment accuracy.
* Work closely with healthcare providers to translate ML and DL data insights into actionable treatment plans, enhancing patient care.

**Data Scientist / Cendyn – Remote Mar 2022 – Nov 2022**

* Developed machine learning models to optimize hotel pricing strategies, resulting in a 15% increase in revenue and improved occupancy rates across multiple properties.
* Implemented predictive analytics to forecast guest demand, reducing booking cancellations by 20% and enhancing overall guest experience.
* Integrated hospitality data into cloud-based solutions, improving decision-making accuracy for guest services and reducing operational inefficiencies.
* Collaborated with stakeholders to gather their requirements translate the business logic to technical report.
* Leveraged Python within Power BI to conduct advanced time-series forecasting of room occupancy rates, providing hotel management with actionable insights that optimized booking rates and increased revenue by 18% during peak seasons.
* Performed exploratory data analysis and hypothesis testing to uncover patterns and trends in supply chain data and created visualizations using Matplotlib and Seaborn to present insights to executives.
* Built a Python pipeline for large-scale data processing and model training, improving the accuracy of room occupancy and booking forecasts.

**Data Analyst / Shimadzu – Columbia, MD Jan 2019 - Jan 2022**

* Implemented predictive analytics to forecast demand for vaccines and pharmaceuticals, reducing production downtime by 15% and ensuring better inventory management.
* Utilized advanced data analytics to streamline supply chain processes, optimizing COVID-19 test distribution and improving delivery times by 18%.
* Created interactive dashboards and reports using Power BI to track key performance metrics for vaccine distribution, providing real-time insights for stakeholders.
* Analyzed sales and market trends in the pharmaceutical industry, identifying opportunities for growth and helping to optimize marketing strategies, leading to a 12% increase in sales.
* Implemented machine learning algorithms to predict shipment delays, allowing for proactive adjustments and reducing late deliveries by 12%.

**Data Analyst / United Nations Millennium Project – Washington D.C Aug 2018 – Dec 2018**

# Projects

* **Customer Churn in Telcom Company:** Implemented various machine learning algorithms, including logistic regression, decision trees, and random forests, to predict customer churn for a telecom company.
* **Amazon Fine Food Reviews:** Developed and implemented an NLP model to analyze Amazon Fine Food Reviews, focusing on detecting and predicting fake reviews.

# Education

**Data Science Certificate 2024**

Springboard

**Master of Information Technology in e-Commerce 2008**

Shiraz University

**Bachelor of Computer Engineering in Software Engineering 2000**

Azad University