# VISHAL PATIL

*Detroit, MI | vishalpatil7860@gmail.com | (313) − 632 − 1024| linkedin.com/in/vishaltpatil/*

## PROFILE

I'm a data scientist and have 2+ years of experience in corporate industry, with a record of success in delivering innovative solutions that assist business to grow through data-driven insights. I have expertise in machine learning, data analytics, and visualization, and am proficient in Python, R, SQL, Tableau, Power BI, and TensorFlow. Furthermore, I excel in communicating complex findings to stakeholders.

## EXPERIENCE

**PrismGen AI**  San Francisco, CA
*Full Stack AI Developer*  March 2024 - Present

- Industrialized PrismGen AI, a comprehensive AI SaaS platform using Next.js and incorporating the GPT-4 Turbo and Dall-E models from the OpenAI API to power extensive GPTs.
- Implementing advanced features including Chat with PDF and Image, allowing users to upload files and ask questions relevant to content, utilizing embedding models and vector databases like Pinecone for efficient storage and retrieval of embeddings.
- Demonstrated expertise in AI integration, prompt engineering, and full-stack web development using cutting-edge technologies like Next.js, the OpenAI API, and vector databases to create a versatile and scalable AI SaaS platform.

**AINE AI**  Pune, India
*Data Science Intern*  March 2022 - April 2022

- Conducted the development of a Market Share Analysis Dashboard using Tableau and Power BI, leading to 40% increase in market share insights.
- Orchestrated detailed sales performance analytics for Adventure Works Cycles using T-SQL in Azure Data Studio, contributing to a 12% revenue increase and optimized business strategies.
- Compiled and presented comprehensive reports that distilled complex data into key insights, increasing stakeholder understanding by 35% and informing critical business decisions.

**Cognizant Technology Solutions**  Pune, India
*Programmer Analyst*  November 2020 - April 2022

- Enhanced the Notification Platform for a major US healthcare client by collaborating with a team to leverage insights from data.
- Improved platform stability by 15% and reduced connectivity errors by 30% through comprehensive testing using POSTMAN and SoapUI Optimized notification workflow accuracy by 25% and maintained a 98% system uptime using Oracle SQL Server.
- Developed and launched a PUSH notification alert application, using data analytics to lead design decisions.
- Resulted in a 40% increase in user engagement metrics and showcased the ability to leverage data insights for improving user experience.

## PROJECTS

**Brain Tumor Segmentation using U-Net**  Dearborn, MI

- Developed a U-Net CNN that accurately segmented brain tumors from MRI scans, achieving a mean F1 score of 0.72958, Jaccard index of 0.64265, and precision of 0.77568 across 612 test images.
- Enhanced model evaluation by integrating interactive visualizations of training/validation metrics into Jupyter Notebook, resulting in a 15% increase in model performance and accuracy.
- Optimized image preprocessing and model training through a high-performance TensorFlow dataset pipeline, leading to a 40% improvement in model performance metrics.

**Retail Data-Driven Product Recommendation Engine**  Dearborn, MI

- Designed a cutting-edge content-based recommendation system using Python, TensorFlow, and Keras; achieved an outstanding 98.34% accuracy in product recommendations, surpassing industry benchmarks.
- Addressed and corrected unseen labels in the dataset, boosting the model's robustness and reliability by 27% during evaluations.
- Deployed the model into a Flask web application, creating an intuitive UI that improved the e-commerce user experience by facilitating more effective product selection and recommendations.

**Netflix Content Analytics Dashboard using Tableau**  Dearborn, MI

- Produced a Tableau dashboard to dissect and display Netflix's content distribution, unlocking insights for global strategic initiatives and synthesizing viewer ratings data to orchestrate a content diversification plan that maximizes audience engagement.
- Assessed and decoded 10 years of temporal content data, uncovering growth patterns and insights that informed strategic content acquisition tactics, potentially increasing monthly active users by 45% and boosting revenue by 20%.
- Distilled top genre performance metrics, steering data-driven recommendations for content development investments to raise viewer engagement and investment returns.

## EDUCATION

**UNIVERSITY OF MICHIGAN-DEARBORN**  Dearborn, MI
Master of Science in Data Science  April 2024

- GPA: 3.8/4.0
- Honors/Awards: Graduation Honors (GPA higher than 3.7)

**SAVITRIBAI PHULE PUNE UNIVERSITY**  Pune, India
Bachelor of Engineering in Computer Engineering  April 2020

- GPA: 3.5/4.0

## SKILLS

- **Programming Languages:** Python, SQL, R
- **Software:** Tableau, Power BI, NumPy, Microsoft Office 365, Git, Keras, TensorFlow, Scikit-learn, Pandas