

Vaishali R Paraskar

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DATA SCIENTIST | MACHINE LEARNING ENGINEER

Masters in computer science (ongoing) with expertise in **Python, machine learning, and database management**. Experience in developing **AI-driven solutions, statistical modeling, and data analytics** for processing large-scale datasets. Skilled in **Pandas, TensorFlow, SQL, and advanced analytics**, with strong capabilities in **data visualization and experiment evaluation**. Adept at collaborating with **cross-functional teams** to derive insights and drive data-informed decisions.

EDUCATION

Long Island University, Brooklyn, NY

Master of Computer Science

Sep 2023 – May 2025

GPA: 3.08 / 4.0

Nirma University, Ahmedabad, India

Master of Computer Application

Aug 2019 – Jun 2021

GPA: 3.07 / 4.0

EXPERIENCE

Data Science Intern | SimplexDiam INC, New York, USA

Jan 2024 – Aug 2024

- Developed predictive models to optimize inventory management, reducing overstock by 25%.
- Conducted data cleaning and preprocessing on large datasets, improving model accuracy.
- Designed interactive dashboards in Power BI to visualize key business metrics.
- Implemented NLP-based sentiment analysis to enhance customer insights.
- Automated ETL workflows for real-time data updates, reducing manual processing time by 40%.

Web Developer | Data-Driven Applications | Advantmed India LLP, Gandhinagar, INDIA

Aug 2021 – Jul 2023

- Built an AI-powered analytics dashboard for healthcare data visualization.
- Designed REST APIs to integrate machine learning models into web applications.
- Optimized SQL queries to enhance data retrieval performance.

Intern - Face Recognition Based Attendance System | BISAG-N, Gandhinagar, INDIA

Jan 2021 – Apr 2021

- Developed a web-based application utilizing face recognition for automated attendance tracking.
- Implemented OpenCV and TensorFlow to achieve 98% accuracy in real-world testing conditions.
- Designed a user-friendly dashboard for attendance monitoring and real-time reporting.
- Recognized for originality, dedication, and meticulous work during the internship period.
- Project certified by BISAG-N, an institute under MeitY, Government of India.

PROJECTS

Advanced Matchmaking Algorithm System | Python, Data Science

Technologies: Python, Scikit-Learn, Pandas, NumPy, Flask, PostgreSQL

- Engineered a sophisticated matchmaking system processing 100,000+ user profiles, implementing weighted compatibility algorithms based on multiple attributes including personality types, professional background, and shared interests.
- Developed a dynamic data generation pipeline using Python's Faker library to create realistic user profiles with diverse demographic distributions, ensuring data quality and representation.
- Implemented an intelligent scoring system with constraint-based filtering, achieving 85% better matches compared to basic demographic matching alone by incorporating factors like MBTI personality compatibility and hobby similarity.
- Built an alternative match suggestion feature using ranked scoring, allowing the system to propose multiple high compatibility matches and improve user match satisfaction.

AI-Powered Book Club & Reading Community

Technologies: React.js, Django, PostgreSQL, Firebase

- Implemented NLP-based book recommendations using user preferences.
- Designed real-time discussion forums using WebSockets.
- Developed a collaborative reading tracking system with personalized book suggestions.
- Integrated Firebase authentication for secure user management.
- Created an intuitive user interface to enhance user engagement and retention.

Movie Recommendation System Using Auto Encoders

- Created a state-of-the-art movie recommendation system leveraging Auto Encoders for AI-based recommendations.
- Applied the "Embarrassingly Shallow Auto Encoders" algorithm to achieve high model performance. Evaluated model performance across various datasets, including Netflix and Million Songs.

TECHNICAL SKILLS

- **Programming:** Python (Pandas, NumPy, Scikit-Learn, TensorFlow), R, SQL, JavaScript (Node.js, React.js)
- **Machine Learning & AI:** Supervised & Unsupervised Learning, Deep Learning, NLP, Computer Vision
- **Data Analysis & Visualization:** Tableau, Power BI, Matplotlib, Seaborn, Plotly
- **Big Data & Cloud:** AWS (EC2, S3, Lambda), Hadoop, Spark
- **Databases:** PostgreSQL, MySQL, MongoDB
- **Web Development:** Flask, Django, REST APIs