

HITEN BAHRANI

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SUMMARY

Aspiring data science intern with hands-on experience analyzing large datasets and building predictive models to improve accuracy and operational efficiency. Skilled in Python, SQL, scikit-learn, and data visualization tools like Tableau and Matplotlib to design solutions that streamline workflows. Former front-end developer intern adept at translating complex data into actionable insights and supporting cross-functional projects.

EDUCATION

University of Texas at Arlington | *Master of Science, Information Systems* Arlington, TX Jan 2025 - Dec 2026
Thadomal Shahani Engineering College | *Bachelor of Technology, Information Technology* Mumbai, India 2024

TECHNICAL SKILLS

- **Languages:** Python, SQL, Java, HTML, CSS, JavaScript, C/C++
- **Developer Tools:** Power BI, Tableau, Excel, VSCode, Git/GitHub, JIRA
- **Databases and Cloud:** MySQL, Oracle, AWS (EC2, S3), nos
- **Frameworks and Knowledge Areas:** Data Visualization, Machine Learning, Predictive Analytics, Statistical Modeling, Data Warehousing, ETL Pipelines, Business Intelligence
- **Academic Disciplines:** Data Science, Computer Science

EXPERIENCE

University of Texas at Arlington Jan 2026 - Present
Graduate Teaching Assistant

- Analyzed student performance data across assignments and exams to identify common error patterns in Python logic, output formatting, and edge cases.
- Utilized structured grading rubrics and scoring datasets to ensure consistent, fair evaluation across large volumes of submissions.
- Generated data-driven feedback reports highlighting frequent mistakes and improvement areas, helping improve overall class performance.

ParticleBlack Jun 2024 - Dec 2024
Frontend Developer Intern Chennai, India

- Built ETL pipelines to preprocess 50,000 interaction logs, extract insights, and apply feature engineering, forming the foundation for predictive modeling
- Developed and implemented predictive models using Python, Pandas, and scikit-learn, boosting response accuracy by 25% and reducing question resolution time by 30%.
- Designed and deployed interactive dashboards using Matplotlib, Seaborn, Tableau, and Power BI to monitor key metrics and communicate AI-driven insights, improving application efficiency by 15%

YHills Jun 2023 - Dec 2023
Data Scientist Intern Noida, India

- Collected and preprocessed over 10,000+ trip records, applying feature engineering on distance, time of day, and traffic conditions to enhance model input quality by 20%.
- Developed a Taxi Fare Prediction model using Python, Pandas, and scikit-learn, achieving 92% prediction accuracy and reducing error rate by 18% compared to baseline models.
- Optimized training pipelines on AWS (EC2, S3) and validated model performance, resulting in a 25% reduction in model training time and increased scalability for real-world deployment

ACADEMIC PROJECTS

Movie Recommendation System Aug 2022 - Dec 2022

- Collected and preprocessed over 10,000+ trip records, applying feature engineering on distance, time of day, and traffic conditions to enhance model input quality by 20%
- Optimized training pipelines and validated model performance, resulting in a 25% reduction in model training time.

Personality Development Test Jan 2023 - May 2023

- Developed a Python machine learning-based movie recommender (Pandas, scikit-learn) that uses content-based and collaborative filtering to increase recommendation accuracy by 20%.
- Processed and evaluated over 5,000 movie evaluations, using feature engineering and statistical techniques to increase model resilience and reliability.

CERTIFICATIONS & VOLUNTEERING

- Java (Desktop & Web App Development): Trivia Live Training (2022)
- MERN Full Stack JavaScript Development: Trivia Live Training (2022)
- AWS Cloud Technical Essentials: Coursera (2025)
- Introduction to AI: Coursera (2025)
- Google Data Analytics Professional Certificate: Google (2024)