DRASHTIMITESHKUMARMEHTA

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CAREER SUMMARY

Data Science professional with a master's degree and 3+ years of experience in analytics, machine learning, and business intelligence. Proficient in Python, SQL, and visualization tools to build predictive models, automate dashboards, and deliver data-driven insights. Experienced in developing scalable data solutions, implementing data quality controls, and translating business requirements into actionable outcomes. Additionally skilled in front-end development and API integration, enabling end-to-end solution development from data pipelines to user-facing applications. Passionate about leveraging AI and analytics to drive measurable business impact.

EDUCATION

University of North Texas | Denton, TX   May 2025
Master of Science - Data Science

Gujarat Technological University| Gujarat, India   May 2022
Bachelor of Engineering – Information Technology

SKILLS

- **Programming Languages**: Python, SQL, R, Java, HTML, CSS, BOOTSTRAP, JavaScript
- **Data Analysis & Visualization**: Pandas, NumPy, Exploratory Data Analysis, Tableau, Power BI, Microsoft Excel
- **Data Science**: Statistical Modeling, Forecasting, A/B Testing & Hypothesis Testing, Sentiment Analysis, Scikit Learn, SciPy, TensorFlow
- **Machine Learning & Artificial Intelligence (AI):** Algorithms (supervised, unsupervised, and reinforcement learning), Large Language Models (LLMs) [Pipelines - Hugging Face, Gradio, etc.]**,** Natural Language Processing, AI Assistants & Autonomous Agents, Prompt Engineering, Interface Workflows, Model Evaluations and Optimizations
- **Data Engineering & Modeling**: Data Modeling & Schema Design, Data Warehousing Concepts, Data Quality Management, Data Governance Principles
- **Cloud & Platforms**: AWS(Foundational), Google BigQuery
- **Development Tools:** Git, Jupyter Notebook, VS Code, Google Collab, Flask (Model & API Deployment)
- **Business, Analytics & Program Management:** KPI Development & Dashboarding, Business Analysis & Consulting, Customer Research & Customer Strategy, Process Optimization & Continuous Improvement, Root Cause Analysis, Program Management

PROJECT

- **Med-Eval**: **G-Eval for Clinical Summarization** – Built a GPT-based evaluation pipeline (Mistral-7B, LLaMA-2) using Chain-of-Thought prompting to assess discharge summaries. Engineered a modular benchmarking framework comparing model outputs against traditional metrics (ROUGE, BLEU) using hypothesis-driven performance evaluation.
- **Predictive Analysis of Financial Market Trends** -Designed feature-rich stock prediction models using time-series data, developed dashboards to monitor real-time KPIs, and simulated model performance at scale.
- **Dynamic Pricing Strategy** - Modelled pricing optimization using retail data; identified key factors driving revenue changes.
- **Lifestyle Determinants of Obesity** - Leveraged behavioral data analytics and interactive dashboards to uncover key patterns in user behavior insights directly applicable to content consumption analysis and user engagement modeling in media platforms.

PROFESSIONAL EXPERIENCE

KGS Technology Group, Data Scientist | Alpharetta, GA (Remote)   Aug 2025 - Present
- Collected, cleaned, and integrated structured and unstructured data from multiple sources to support enterprise-level analytics initiatives.
- Designed and optimized predictive models using Python and SQL; implemented validation checks and data quality controls to improve reporting accuracy and model reliability.
- Developed self-service dashboards (Tableau, Power BI) enabling business stakeholders to monitor KPIs and make data-driven decisions.
- Collaborated with Agile-style cross-functional teams to translate business requirements into scalable data solutions deployed in cloud-based environments.

University of North Texas, Volunteer Research Assistant | Denton   Aug 2024 - December 2024
- Collaborated with Dr. Mohammed Aledhari's lab to evaluate the RAFT (Retrieval-Augmented Finetuning) method for domain-specific adaptation of large language models (LLMs).
- Analyzed and replicated RAFT's open-source implementation from Berkeley AI Research to assess its effectiveness against traditional finetuning and RAG techniques.
- Set up model environments, performed code reviews, and assisted in dataset preparation and tuning strategies for clinical summarization tasks.
- Documented experiment results and created structured reporting templates to improve reproducibility and data governance standards.
- Presented technical findings in weekly meetings and contributed to improving research documentation and experiment tracking protocols.

Family Business, Business Coach | India   OCT 2021 - June 2023
- Designed KPI dashboards and forecasting models in Excel/Power BI to optimize distributor operations, identify sales trends, and support data-driven decision-making.
- Led cross-functional team of 50+, managing end-to-end programs, implementing performance frameworks, and improving retention by aligning strategy with measurable business outcomes. Delivered training and workshops for 500+ participants, driving adoption of new strategies, enhancing communication, and aligning customer strategy with organizational goals.
- Established standardized reporting definitions and documentation processes to ensure consistency, data integrity, and transparency across operational dashboards.

BIT Infotech, Data Analyst | India   March 2020 - March 2021
- Applied Python-based analytics on multiple real-world datasets to deliver actionable insights.
- Performed data preprocessing, cleaning, prediction, and visualization using Pandas, NumPy, Scikit-learn, and Matplotlib.
- Built and evaluated machine learning and NLP models to solve business problems.
- Produced reports and visualizations by analyzing structured and unstructured data, improving stakeholder decision-making.

CERTIFICATIONS/ WORKSHOPS

- Google Data Analytics Professional Certificate
- Tableau Desktop Professional - Unilytics
- Data Analytics Corporate Training and Microsoft Excel Complete Mastery - Jobaaj Learnings
- Python, Web Development, Data Analytics, and Artificial Intelligence Workshops - MyCaptain
- Accenture North America Data Analytics and Visualization Job Simulation on Forage