JAYESH CHAUDHARI

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PROFILE

Business Analytics professional with 4+ years of experience translating business requirements into scalable technical solutions. Skilled in stakeholder collaboration, digital product analysis, and driving insights using ML, NLP, and GenAI to solve real-world business problems in finance, retail, and AI safety. Passionate about building interpretable, scalable, and impactful solutions.

SKILLS AND CERTIFICATIONS

- **Languages/ Frameworks:** Python, SQL, PL-SQL, Scikit-learn, TensorFlow, PyTorch, Java, Apache Spark
- **GenAI/ NLP:** LlamaParse, Claude, GPT-4o, SentenceTransformer, Prompt Engineering
- **Visualization & Tools:** Jira, Tableau, Power BI, PowerPoint, Excel, Matplotlib, Seaborn, Google Colab, Pandas, @Risk
- **Analytics & Techniques:** Clustering, PCA, ML Algorithms, ETL/ELT, A/B Testing, Model Evaluation (AUC, F1, ROC)
- **Certifications**: Microsoft Azure Fundamentals, Microsoft Azure AI Fundamentals, Tableau Desktop Specialist, AWS Cloud Practitioner, WisdomHatch Management Consulting, Associate Certified Analytics Professional (aCAP)

PROFESSIONAL EXPERIENCE

Prediction Guard   **West Lafayette, IN**
AI Researcher   **January 2024 - April 2024**
- Designed an AI risk benchmarking framework for open-source LLMs (LLaMA-3, Hermes), evaluating prompt injection, PII leaks, toxicity, and factual drift using custom adversarial pipelines and real-world datasets
- Engineered novel evaluation metrics (e.g., Hijack Success Rate, Prompt Deviation) and built an enterprise-grade leaderboard, guiding secure model selection and supporting product risk-mitigation strategies

CorpusKey Inc.   **West Lafayette, IN**
Data Scientist   **August 2024 - December 2024**
- Applied dimensionality reduction (PCA, t-SNE) and clustering (K-Means, DBSCAN, GMM) on high-dimensional text embeddings and delivered interactive perceptual maps to identify strategic content gaps
- Built automated semantic labeling pipelines using SentenceTransformer, GPT-3.5 API to enhance corpus data interpretation, improving labeling consistency and analysis efficiency

Capgemini Technology Services India Limited   **Mumbai, India**
Associate Consultant   **April 2022 - August 2023**
- Developed applications and analyzed business requirements for a multi-line insurance client entering the U.S. market, streamlining the backend for drafting commercial policies and contributing **$10M+** in annual revenue
- Felicitated daily standups and sprint ceremonies for project team, resulting in a **15%** improvement in delivery efficiency
- Reduced delivery delays by **10%** by optimizing all processes from gathering requirements, developing use cases and user stories to testing by collaboration with multiple cross-functional teams across 3 countries
- Collaborated with business analysts and product owners to convert **$100K+** worth of business requirements into implementable technical specifications and user stories, refining development processes and minimizing rework

Senior Software Engineer   **September 2020 - March 2022**
- Led a 9-member team, delivering a **$300K** module **40%** ahead of schedule through optimized workflows
- Implemented quality checks through structured processes that reduced rework by **60%**, saving **$20K** in costs
- Coordinated cross-functional efforts between development and testing teams, ensuring seamless execution of project phases

ACADEMIC PROJECTS

SmartSlideGen [Claude, LlamaParse, GPT-4o, Python | GenAI, Document Automation, UX]
- Built an AI pipeline to automate slide creation from Word docs using LLMs, reducing manual effort by 80%

Customer Engagement – Dunnhumby [K-Means, Random Forest, ARIMA | Retail Analytics, Customer Segmentation]
- Clustered customers, predicted churn, and modeled sales to guide promotions for a baby food brand

Optimal Drugstore Location [SQL, SafeGraph Data, Geospatial Analytics | Business Intelligence, Retail Strategy]
- Identified high-ROI drugstore locations using hospital footfall, demographics, and brand saturation metrics

Bankruptcy Prediction Model [Logistic Regression, Gradient Boosting, Neural Nets | Finance, Risk Analytics]
- Built ensemble models to predict bankruptcy risk with 94%+ accuracy using financial indicators

EDUCATION

Purdue University, Daniels School of Business   **West Lafayette, IN**
Master of Science in Business Analytics and Information Management   **August 2025**
- **Relevant Coursework:** Business Analytics, Data Mining, Data and AI Driven Marketing, AI for Business Decisions

National Institute of Technology, Warangal   **Warangal, India**
Bachelor of Technology in Metallurgical and Materials Engineering   **August 2020**

LEADERSHIP ACTIVITIES, AFFILIATIONS, HONORS

- Received highest employee rating and "Going above and beyond" award at Capgemini in April 2023
- Represented project team at Capgemini as a success story and hosted a Business Unit event