BHAVISHYA VUDATHA

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SUMMARY

Software Engineer with 3+ years of experience in web application development, SQL automation, and Tableau dashboarding. Skilled in MERN stack, Python, and data workflows, with hands-on experience modernizing legacy systems and enabling data-driven decision-making. Currently pursuing an M.S. in Computer Science. Actively pursuing opportunities in Data Engineering, Data Analysis, and Machine Learning Engineering.

TECHNICAL SKILLS

- **Programming & Scripting:** Python, SQL, JavaScript, C#
- **Web Development:** React.js, Node.js, Express.js, MongoDB, ASP.NET MVC
- **Data Engineering:** ETL Pipelines, SQL Server Jobs, Spark, Airflow, Data Modeling
- **Data Analytics & Visualization:** Tableau, Power BI, Excel, KPI Dashboard Design
- **Machine Learning:** Regression, Classification, TensorFlow, PyTorch, Scikit-learn
- **Cloud & DevOps:** GCP (Dataproc, Cloud Storage, BigQuery), AWS (S3, Lambda), Docker, CI/CD
- **Tools & Other:** Git/GitHub, JIRA, Agile/Scrum, Linux

PROFESSIONAL EXPERIENCE

Software Engineer (Data & Applications)– Accenture (Client: AT&T) **Dec 2019 – Mar 2023**

- Supported and enhanced 10+ internal MERN-based web applications, resolving production issues, adding new features, and improving user experience and performance.
- Created and automated SQL Server jobs to eliminate manual data processing tasks, improving reporting efficiency.
- Designed 2 Tableau dashboards for KPI and trend analysis, helping business teams make faster, data-driven decisions.
- Contributed to the migration of a legacy ColdFusion application to React.js, collaborating with offshore teams to gather requirements and ensure smooth implementation.
- Maintained detailed technical documentation for workflows, feature updates, and issue resolutions, improving team coordination and knowledge sharing.
- Collaborated in Agile sprints with cross-functional teams on code reviews, testing, and delivery of production-ready releases.

EDUCATION

Masters in Computer Science - University of Colorado Denver [Expected Dec 2025]
Coursework - Deep Learning, NLP & Generative AI, Machine Learning, Data Science, Mobile Computing, Computer Vision.
Bachelor of Technology in Computer Science and Engineering - JNTUK University, India **July 2015 - May 2019**
Coursework - C, C++, OOPS, Java, Data Structures, SQL, BigData.

PROJECTS

Insurance Sales & Claims Analysis Dashboard | Tableau, SQL, Excel

- Designed and developed an interactive Tableau dashboard analyzing insurance sales and claims data across customer segments, policy types, and regions.
- Implemented calculated KPIs (policy count, claim approval rate, premium-to-claim ratio) for business performance monitoring.
- Built dynamic filters and parameters for trend analysis, enabling real-time decision-making and executive visibility.

E-Commerce Order Analytics Pipeline (Personal Project) | GCP Dataproc, Databricks, PySpark, SQL

- Designed and implemented a scalable ETL pipeline using PySpark on both GCP Dataproc and Databricks to compare performance, scalability, and ease of orchestration across platforms.
- Processed raw e-commerce datasets from cloud storage, performing data cleaning, transformation, and KPI computation for sales and fulfillment analysis.
- Applied partitioning, caching, and aggregation strategies to optimize cost and query performance in both environments.

Shakespearean English to Modern English Translator (Course Project) | T5, Python, Flask

- Developed an NLP application using the Hugging Face T5 model for Shakespearean-to-Modern English translation.
- Implemented preprocessing, back-translation, and evaluation metrics (BERTScore, chrF) to assess model accuracy.
- Deployed the model as a Flask web app, demonstrating AI model integration into end-user applications.

Ordinal Regression Loss Function Research (Publication in Progress) | TensorFlow, Python

- Designed a custom ordinal entropic loss function in TensorFlow to improve accuracy in tasks with ordered labels (education, healthcare, sentiment).
- Conducted comparative experiments with new loss against existing ones across CNN, classification and transformer models.
- Drafting a manuscript summarizing comparative results and qualitative error analyses.