

VENKATESH SOUNDARARAJAN

(825) 962-9211 ● Calgary, AB ● venkatesh.balusoundar@gmail.com ● ca.linkedin.com/in/venkateshbalus

Portfolio: <https://venkateshbs.streamlit.app/>

PROFILE

Dynamic Data Quality Engineer and Business Analyst with 8+ years of experience driving data governance, quality assurance, and strategic data initiatives across Insurance, Health Care, and Public Services sectors. Pursuing a master's in data science and Analytics at the University of Calgary with a focus on data quality improvement, statistical modeling, and machine learning. Skilled in building scalable data pipelines, improving data integrity, and collaborating cross-functionally to deliver data-driven solutions aligned with business and regulatory needs. Passionate about public service and fostering a culture of data excellence and innovation.

CORE SKILLS

- Python, R, SQL, Pandas, NumPy, Matplotlib
- Tableau, Power BI, Excel (Dashboarding & Reporting) & Streamlit Dashboard Development
- AWS Deployment (S3 Hosting)
- Agile Project Management (JIRA, Rally)
- Version Control: Git, GitHub

EDUCATION

Masters in Data Science and Analytics

September 2024 – Present

University of Calgary, Alberta, Canada

Bachelor of Engineering

August 2009 – May-2013

Anna University, Chennai, India

EMPLOYMENT EXPERIENCE

Software Development Intern

May 2025 - Present

TechInsights Inc, Canada

- Developing a scalable Data Lineage framework using AWS services (Glue, Lambda, S3, Athena) to enhance visibility across the data lifecycle.
- Automated ETL workflows to trace data origin, transformations, and usage, supporting compliance and audit readiness.
- Integrated metadata tracking and schema evolution to improve transparency, data governance, and operational efficiency.
- Collaborated with data engineers and business stakeholders to define lineage use cases and deliver interactive dashboards using Power BI and AWS Quick Sight.
- Strengthened data integrity and trust across analytics pipelines by implementing quality validation at key checkpoints.

Senior Consultant

October 2021 - August 2024

Deloitte Consulting India Private Limited, India

- Led a QA team of 15 members, optimizing the test strategy by incorporating in-flight production scenarios, resulting in improvement in test coverage and accuracy.
- Conducted functional, integration, and regression testing for Guidewire PolicyCenter, BillingCenter, and ClaimCenter.
- Collaborated with cross-functional teams across five departments, gathering requirements and improving communication between technical and functional stakeholders, reducing turnaround time by 30%.
- Developed an automated dashboard framework, reducing manual effort by 50% and improving overall project delivery efficiency.
- Created interactive dashboards using tools like Tableau and Power BI to visualize key metrics for stakeholders.
- Implemented a test review process, boosting defect removal efficiency to 95%.
- Uncovered over five hundred functional defects and reduced post-release issues by 40%.

Consultant

May 2018 - October 2021

Capgemini Technology Services India Private Limited, India

- Automated 100+ regression and functional test cases using Selenium WebDriver, reducing manual testing effort by 60% and cutting testing time by 40%.
- Integrated Selenium WebDriver, Maven, Jenkins, and GitHub, streamlining the CI/CD pipeline and reducing build and testing cycle times by 35%.
- Created an automation tool that sent real-time failure alerts, improving response times to critical issues.
- Actively participated in agile forums within a team of eight members, reducing the sprint carryover rate by 15% and helping the team consistently meet sprint goals.

Associate

September 2013 - May 2018

Cognizant Technology Solutions India Private Limited, India

- Managed and tracked metrics for projects valued at \$2M+ across all phases of the STLC, contributing to a 10% increase in process efficiency.
- Led test environment management for Continuous Testing across three projects, driving automation and reducing test environment setup time by 40%.
- Delivered 10+ knowledge transfer (KT) sessions, ensuring knowledge retention and smooth transition across team members and stakeholders.
- Experienced in Production Remediation process- Ad hoc data extraction & reporting, Data Patching, and document re-triggering.

PROFESSIONAL DEVELOPMENT

- Member of Data Science Club - University of Calgary -2024.
- Member of Test Tribe - Calgary Chapter- 2024.

CERTIFICATIONS

- Insurance and Guidewire Insurance Suite Analyst 10.0 – Jasper –Guidewire Education -2024.
- Karate DSL – Udemy -2023.
- Rest API Automation - Test Leaf Software Solutions Private Limited – 2023.
- Selenium WebDriver - Test Leaf Software Solutions Private Limited – 2022.
- SQL for Data Science - Coursera -2020.
- SDET- Capgemini – 2020.

ACCOMPLISHMENTS

- Awarded as “Spot Award” 2022 & 2023 for Insurcloud – Deloitte, Canada.
- Awarded as “Best Contributor” 2018 for COMPASS Program – Hartford Insurance, USA.
- Awarded as “QE & A Maestro” 2017 of Centene by Cognizant QE&A, USA.
- Awarded as “Pride of the Quarter Q1”-April 2017 of Health Net by Cognizant QE&A, USA.
- Awarded as the “Pillar of the Month “May2014” & “August-2015” of Health Net by Cognizant QE&A, USA.

INTERESTS

- Event Coordinator and active in Cognizant Outreach, India.
- Volunteered in Cognizant Go Green Activities- Beach and Lake Cleaning, India.

PROJECTS

- **Canadian Quality of Life Analysis** – Analyzed regional indicators across Canada using statistical methods and geospatial visualizations.
- **Alberta Wildfire Analysis** – Explored wildfire patterns and hotspots in Alberta using Python and time-series analysis.
- **Toronto Crime Drivers** – Built regression models to analyze socio-economic influences on crime in Toronto neighborhoods.
- **Weight Change Regression Analysis** – Predicted weight changes using regression techniques on lifestyle and nutrition data.
- **Calgary Childcare Compliance** – Visualized safety and compliance trends across Calgary childcare facilities using Power BI.
- **Social Media Purchase Influence** – Applied clustering and sentiment analysis to assess how social media affects consumer behavior.
- **Obesity Level Estimation** – Built classification models to estimate obesity levels using health and lifestyle attributes.
- **Weather Data Pipeline (AWS)** – Created an end-to-end AWS pipeline with EC2, S3, and Lambda to process and visualize weather data.
- **Gmail Sentiment Analysis** – Automated Gmail sentiment extraction using NLTK and VADER to analyze daily emotional tone.
- **Penguin Species Prediction Chatbot** – Developed a Streamlit-based chatbot using ML models to predict penguin species.
- **Uber Ride Prediction** – Built a regression-based Streamlit app to predict Uber ride durations from metadata features.