

THAMIZHANBU ELAMURUGU

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OBJECTIVE

As an aspiring Data Analyst with a strong foundation in data science and a background in mathematics, I aim to work in a data-driven environment where I can apply analytical techniques to uncover insights, support decision-making, and drive business growth. I'm passionate about transforming complex data into actionable strategies and continuously enhancing my skills to contribute meaningfully to organizational success.

EXPERIENCE

BAJAJ ALLIANZ LIFE INSURANCE

Data Analyst Intern

Jan 2025 to Jul 2025

- Analyzed claim settlement trends using cross-tab analysis and location-based clustering to detect high-risk seller segments.
- Collaborated on data-driven initiatives to uncover seller behavior to improve claim assessment strategies.
- Supported fraud detection strategies by segmenting sellers and identifying anomalous claim patterns.
- Created data visualizations and reports to assist business teams in decision-making.
- Gained hands-on experience with insurance analytics, EDA, and real-world business processes.

ACCENTURE

Business & Technology Delivery Analyst

Dec 2022 to Aug 2023

- Designed and implemented a dynamic Microsoft Power BI dashboard with automated data ingestion, improving internal team performance monitoring and task management.
- Developed and implemented macro-enabled Excel spreadsheets to automate and streamline redundant processes, cutting report generation time from 5 hours to under 2 hours.

ACCENTURE

Application Development Associate

Aug 2021 to Dec 2023

- Worked in SAP Ariba support, concentrating on resolving system errors within the procure-to-payment cycle for an enterprise.
- Trained in Java Standard Edition, Python, and various Query Languages and Data Processing tools.

TATA ADVANCED SYSTEMS LIMITED

Process Excellence Intern

Jan 2021 to Jul 2021

- Worked in a department that implemented lean techniques in the industry and tracked departmental performance through key performance indicators (KPIs).
- Developed interactive dashboards for generating business insights through the use of Tableau.
- Optimized web page and site accessibility for improved user experience.

EDUCATION

MASTER OF SCIENCE: DATA SCIENCE

2025

Christ (Deemed to be University), Pune, MH

BACHELOR OF ENGINEERING: AERONAUTICAL ENGINEERING

2021

Kumaraguru College of Technology, Coimbatore, TN

HIGHER SECONDARY EDUCATION

2017

GKD Matric Higher Secondary School, Coimbatore, TN

SECONDARY EDUCATION

2015

GKD Matric Higher Secondary School, Coimbatore, TN

TECHNICAL SKILLS

- **Data Science & Analytics:** Machine Learning, Statistical Analysis, Image Analytics, PowerBI, Advanced Excel
- **Programming & Tools:** Java, Python, Pands, NumPy, Scikit-Learn, TensorFlow
- **Database Management:** SQL, NoSQL
- **Web Application Development:** HTML, CSS, Django

SOFT SKILLS

- Cross-Functional Team Collaboration
- Team Leadership and Management
- Effective Communication
- Analytical Thinking
- Critical Thinking
- Problem Solving
- Adaptability and Flexibility
- Project Management

CERTIFICATIONS

- **Cloud Technologies, Jun 2024**
Vendor: Christ (Deemed to be University), Pune, MH
- **Google Cloud Career Readiness Certificate, May 2024**
Vendor: Google
- **International English Language Testing System (IELTS) 7.0, Aug 2022**
Vendor: idp
- **Introduction to Data Analytics, May 2021**
Vendor: Coursera
- **Fundamentals of Deep Learning for Computer Vision, Oct 2019**
Vendor: NVIDIA

PROJECTS & RESEARCH

A Hybrid Framework for Real-Time Unsupervised Anomaly Detection in Streaming Aero-Engine Sensor Data

- Developed an unsupervised anomaly detection framework for aero-engine sensor data using EKF and Isolation Forest.
- Applied controlled synthetic fault injection on NASA CMAPSS dataset to simulate realistic sensor anomalies.
- Improved anomaly visibility through residual analysis and dynamic noise covariance estimation.
- Achieved robust fault detection across multivariate time-series data with varying noise and fault scales.

Cab Pool Management

- Project based on carpool service.
- Full-stack project using Django Framework.
- Implemented user authentication with distinct access levels, providing separate interfaces for customers and admins, and an admin dashboard to monitor the business.

Link: <https://github.com/shubh4mk/Cab-Management-Project>

Canteen Sales Management

- Project built using python for canteen sales management.
- Manages daily menu and sales.
- Contains user authentication with distinct access for customer and administrator.
- Data stored in CSV files.

Link: <https://github.com/danush02/Canteen-Sales-Management>

EXTRACURRICULAR ACTIVITIES

Technical and Documentation Lead at Central Placement Committee, 2024

- Oversee placement technical development and assistance, along with managing all related documentation.

Handball Goalkeeper of Kumaraguru College Handball Team, 2020

- Represented the college in state-level tournaments, winning several, and was awarded Best Goalkeeper.

Secretary of National Service Scheme, 2020

- Organized and Volunteered for 6 medical camps in rural villages and led social awareness events.

President of Students for Exploration and Development of Space, 2020

- Led a cross-domain team of size 35 on space technology projects, fostering interest in space science and organizing related events.