

# MANOJ GOWDA JAYASWAMY

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"Excelling as an experienced software engineer, I develop scalable solutions, master software design, coding, and debugging. My passion for problem-solving drives me to contribute expertise to challenging projects, optimizing software, and fostering teamwork."

## EDUCATION

<b>University of Texas at Dallas, Texas</b>	<b>May 2024</b>
<i>Master of Science, Information Technology and Management</i>	<b>GPA 3.5</b>
<b>Visvesvaraya Technological University, Bengaluru</b>	<b>June 2021</b>
<i>Bachelor of Science, Mechanical Engineering</i>	<b>GPA 3.22</b>

## SKILLS

**Programming:** Python, R, SQL, HTML/CSS, JavaScript, React.js, STATA, UI/UX, C, C++.

**Libraries:** Git, GitHub, Pandas, NumPy, Seaborn, Matplotlib.

**Tools:** MS Excel, Tableau, Amazon QuickSight, Power BI, Oracle SQL, MySQL, PostgreSQL, DataBricks.

**Certification:** Oracle Autonomous Database Cloud Specialist, Tableau, Python, DataBricks.

**Course Work:** Object Oriented Programming-Python (OOP), Data Visualization, Data Management, Business Analytics with R, Advanced Statistics, Spreadsheet Modelling, Google Cloud Platform Fundamentals, Full Stack Development Specialization.

## PROFESSIONAL EXPERIENCE

<b>Techno Fly Solutions, Bengaluru, India</b>	<b>November 2021 – May 2022</b>
<i>Graduate Trainee Engineer</i>	

- Developed and deployed a Python script to automate the ETL pipeline by downloading CSV from a website, modifying and loading data into a database using business logic via a daily interface, thus saving 4 hours of human effort per week.
- Elevated data pipeline efficiency by enacting code optimizations in Databricks and PySpark, yielding a weekly 10-hour reduction in data processing and transformation, enabling expedited access to high-quality datasets for the Modeling team.
- Collaborated in an Agile environment, working in sprints and utilizing Azure DevOps for seamless project management, version control and continuous integration/ delivery (CI/CD), enabling streamlined teamwork and efficient project execution.
- Engineered and executed a real-time chat application utilizing Node.js and WebSocket technology, facilitating instantaneous user communication with minimal latency.

<b>BEML Ltd, Bengaluru, India</b>	<b>March 2021 – May 2021</b>
<i>Student Intern</i>	

- Designed a high-level interactive dashboard on Tableau with context filtering to present the functionality of the dashboard and to automate the reports from Excel to Tableau for efficient analysis which improved organization processes by 35%.
- Created and presented vital performance reports for stakeholders by cleaning data, manipulating querying and joining data from various sources using SQL and Tableau, saving 25% on decision-making time.
- Enhanced data query efficiency by executing complex database queries, leading to a notable 36% reduction in query retrieval time for reporting and analysis purposes.

## ACADEMIC PROJECT EXPERIENCE

### Real Time Data Revolution using Kafka Streaming (Kafka, S3, Crawler, Glue, Athena)

- Developed a real-time stock market streaming data pipeline using AWS EC2 instances, achieving a 20% reduction in data processing time, and enabling seamless streaming to a Kafka cluster for low-latency data availability.
- Streamlined an end-to-end AWS ETL workflow, using S3 storage, a custom data crawler, Glue-based transformations, and Athena analytics, leading to a 30% improvement in data accuracy.

### Covid-19 Data Analysis (MS SQL Server, Tableau)

- Conducted exploratory Data Analysis on Covid-19 data set to analyze ongoing patterns of infections, mortality, and vaccination rates on a global, continental, and country level using MS SQL Server.
- Built a Tableau dashboard for the global covid infection and used it to forecast the infection rates for the following months.

### Smart Location-based Attendance Register Android App (Java, HTML/CSS)

- Android application implemented using QR code generation, which is scanned by the students to mark their presence in the class, thereby reducing the need for additional biometric scanner devices. The location of a classroom has specific geo-coordinates, and each student's location can be determined by the GPS using a smartphone.

## ADDITIONAL INFORMATION

**Eligibility:** Eligible to work in the U.S. for internships and full-time for up to 36 Months without sponsorship.