

# SATHYAPRIYA SUBBIAH

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## WORK EXPERIENCE

### Data Analyst

Sep 2024 - Sep 2025

Mitsubishi Heavy Industries Asia Pacific Pte Ltd (Contracted through U3 Infotech)

- Performed geospatial analysis of ERP 2.0 datasets using Google Earth to identify errors in charging
- Developed error trend reports for 36,000+ samples per location, achieving an overall 99.9% KPI performance
- Automated reporting workflows using Python, saving 15 hours weekly while improving accuracy
- Prepared Standard Operating Procedures (SOP documentations) for data analysis processes and quality assurance
- Tools:** Python, Advanced analytics, Google Earth

### Data Analytics Intern

Aug 2024 - Sep 2024

Cloud Counselage Pvt Ltd

- Analyzed student learning patterns and course engagement metrics to identify performance trends
- Generated actionable insights using SQL and Excel data to support instructional decision-making
- Developed interactive dashboards to monitor student progress and course completion, improving engagement
- Tools:** SQL, Excel, BI tools

## EDUCATION & PROFESSIONAL CERTIFICATIONS

### Bachelor of Technology, Information Technology

Sep 2020 - Jun 2024

SRM Institute of Science and Technology, Chennai, India

- CGPA: **9.26/10**
- Graduated in First Class with Distinction

### Advanced Professional Certificate in Data Analytics (SCTP)

May 2025 - Aug 2025

Nanyang Technological University (NTU), Singapore

#### Financial Analysis & Forecasting - NIKE

- Predictive analysis of NIKE quarterly performance using 6 year historical data, applying time series modeling, benchmarking performance, and creating forecasts across 3 different scenarios
- Tools:** Advanced financial modeling, forecasting algorithms

#### HR Data Analysis & Visualization with Tableau

- Employee attrition analysis across 3,700+ employee records and 4 departments, assessing workforce demographics, and identifying key retention factors through interactive Tableau dashboard
- Tools:** Tableau (dashboards, presentations, storytelling)

## RESEARCH & PUBLICATIONS

### Integrating YOLO with Darknet: Real-time Weapon Detection System for Banking Security

Presented at the 14th International Conference on Science & Innovative Engineering (ICSIE 2024)

- Built a real-time weapon detection system, achieving 76% mAP accuracy, processing 30 FPS with <2s alert response time
- Tools:** Python, YOLO (Darknet), Twilio API, Pygame (0.76 mean Average Precision)

### Smart Budget Assistant Using Machine Learning

Presented at the 12th International Conference on Contemporary Engineering and Technology (ICCET 2024)

- Developed a personal finance application with expense prediction and budget optimization
- Tools:** Python, Supervised learning algorithms (Regression, Classification), Streamlit

## KEY PROJECTS

### Customer Segmentation Analysis

- Customer segmentation using K-means, identifying 5 distinct groups with targeted marketing recommendations
- Tools:** Python (Pandas, Matplotlib, Seaborn, Scikit-learn), Unsupervised learning algorithms, Jupyter notebook

### Comprehensive Analysis of Fashion Trend

- Market research on fashion trends across 4 key metrics using EDA to identify consumer preference patterns
- Tools:** Exploratory Data Analysis, Python (Pandas, NumPy, Matplotlib, Seaborn, WordCloud)

### Interactive Excel Sales Dashboard

- Sales performance dashboard with automated reporting capabilities, tracking performance across 6 key metrics
- Tools:** Advanced Excel, Pivot tables

## ADDITIONAL TRAINING & DEVELOPMENT

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**Accenture North America Data Analytics and Visualization Job Simulation - Forage**

**Prompt Design in Vertex AI - Google Cloud**

**The Joy of Computing in Python** (scored 85%) - NPTEL

**Conference Presentations - 14th ICSIE 2024, 12th ICCET 2024**

## SKILLS

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**PROGRAMMING:** Python, SQL

**DATA VISUALIZATION:** Tableau, Advanced Excel, Power BI

**MACHINE LEARNING:** Supervised Learning, K-means Clustering, Time Series Forecasting, YOLO

**TOOLS & TECHNOLOGIES:** Jupyter Notebook, Git, GitHub, Google Earth, Streamlit