# BalaSankar G

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## Summary

A passionate and dedicated Artificial Intelligence and Data Science student with hands-on experience in Machine Learning, Data Analysis, and Web Development. Proficient in multiple programming languages and frameworks with a keen interest in AI-powered applications and automation.

## Education

**Ramco Institute of Technology** - B.Tech in Artificial Intelligence and Data Science (2022-2025)
Courses: Data Analysis, Artificial Intelligence, Machine Learning, DBMS
CGPA up to Sem 7: 7.89

**P.A.C. Ramasamy Raja Polytechnic College** - Diploma in Textile Technology (2020-2022)
Percentage: 92

**Government Higher Secondary School** (2018-2020)
Percentage: 84% (10th) and 74% (12th)

## Skills Summary

**Languages:** Python, Java, SQL
**Tools:** Power BI, Robotic process Automation (UiPath)
**Database:** MySQL, PostgreSQL

## Communication Languages

**Tamil:** Native
**English:** Proficient

## Experience

**Geonzlogix Pvt (Internship)**                    June 2023 – July 2023
Project: Automatic Vehicle Counting System

- Developed an Automatic Vehicle Counting System using OpenCV and YOLOv8 for real-time detection.

- Enhanced model accuracy through fine-tuning, image preprocessing, and performance evaluation.

- Collaborated with the team to integrate the model and applied advanced computer vision techniques.

**ICT Academy (Internship)**                    Aug 2023 – Sept 2023
Project: Text-Image Generator with No Code

- Worked on real-world data science projects during a virtual internship.

- Sharpened analytical abilities and gained hands-on experience in solving data-related problems.

- Developed a text-to-image generator using low-code techniques.

## Projects

**Hackathon Project - Gen-AI (DigiSpotAI)**                                   Feb 2025
Project: AI-Powered SEO Content Rewriter

- Developed an AI tool that suggests content improvements based on SEO best practices.

- Implemented features such as title and meta description improvements, better keyword placement, and missing entity detection.

- Tech Stack: Gemini, Playwright, Node.js, React.js.

**Text Classification with Adversarial Training**

- Developed a text classification model for sentiment analysis on the IMDb dataset.

- Used a neural network with embedding, dense layers, and adversarial training to improve model robustness.

**Predictive Analytics for Cybersecurity Vulnerabilities**

- Built a machine learning model to predict and prioritize cybersecurity vulnerabilities.

- Utilized historical security data and trained a Naive Bayes classifier to proactively identify vulnerabilities.

## Certifications

- UiPath Academy Automation Explorer Training - UiPath

- Exploratory Data Analysis with Pandas and Python 3.X - Udemy

- Cloud Computing and Amazon Web Services Fundamentals - Udemy

## Interests

- Artificial Intelligence and Machine Learning

- Data Visualization

- Web Development

- Automation and RPA

- Cloud Computing

## Hobbies

- Playing cricket

- Watching cricket

- Watching sci-fi series