

# SRIRAM Y

*AI Enthusiast*

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## CAREER OBJECTIVE

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Artificial Intelligence and Computer Science undergraduate with a strong foundation in programming, problem-solving, and software development. Proficient in Python Java and full-stack development, with hands-on exposure to machine learning concepts, data handling, and data analysis. A quick learner and adaptable team player who collaborates effectively and approaches technical challenges with a structured, analytical, and solution-oriented mindset.

## EDUCATION CREDENTIAL

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Government Boys Higher Secondary School, Chennai  
Class-XII

**2022-2023**

BSA Crescent Institute of Science & Technology, Chennai  
Bachelor of Computer Applications with Artificial Intelligence.

**2023 - 2026**

## TOOLS & TECHNOLOGIES

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### Programming Languages

- Python
- Java

### Artificial & Machine Learning

- Machine Learning
- Computer Vision
- Deep Learning
- Natural Language Processing

### Web Development

- Frontend: HTML, CSS, JavaScript
- Backend: Node.js
- Databases: SQL, MongoDB

### Tools & Platforms

- Visual Studio Code
  - Jupyter Notebook
  - Google Colab
  - Git & GitHub
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## PROJECTS

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### Deepfake Detection System

Developed a computer vision-based deep learning system to identify deepfake content by detecting facial manipulations and pixel-level artifacts in high-resolution images. The system supports real-time inference through optimized preprocessing.

Technologies: Python, CNNs, OpenCV, TensorFlow / PyTorch, Computer Vision.

### Generative Text-to-Video Engine

Designed a generative AI pipeline capable of converting natural language prompts into coherent video sequences while maintaining semantic alignment, visual realism, and temporal consistency across frames.

Technologies: Diffusion Models, Transformers, NLP, Python, Generative AI.

### Enterprise RAG Engine

Built a Retrieval-Augmented Generation (RAG) system enabling large language models to retrieve accurate information from private enterprise datasets, reducing hallucinations and improving response relevance.

Technologies: LLMs, LangChain, Vector Databases, Embeddings, Semantic Search, Python.

### 2D to 3D Image Reconstruction

Developed a computer vision system to reconstruct high-quality 3D models from 2D images using depth estimation and neural rendering techniques.

Technologies: Computer Vision, Depth Estimation, Point Clouds, NeRFs, Python.

### Autonomous Navigation RL Agent

Implemented a reinforcement learning agent capable of autonomous navigation in complex simulated environments through optimized pathfinding and collision avoidance.

Technologies: Reinforcement Learning, PPO, OpenAI, Python

## SOFT SKILLS

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- Creative Problem Solving
- Time Management
- Storytelling with Data
- Curiosity-Driven Learning

## CERTIFICATIONS & INDUSTRIAL EXPOSURE

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- IBM – Python for AI & Machine Learning.
  - Coursera – Introduction to Large Language Models.
  - Great Learning – Introduction to Artificial Intelligence.
  - Great Learning – Smart English: Basics for Professionals.
  - AI & ML Internship – Technical Intern.
  - CIT College – AI Workshop Participant.
  - Cloud Logic – Industrial Visit: Cloud Infrastructure & Deployment.
  - Retec Lasers, Chennai – Industrial Visit: Laser Technology & Automation.
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