

Srijan Sundaram

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EDUCATION

- Bharati Vidyapeeth, Department of Engineering and Technology** Navi Mumbai, India
Bachelor of Technology (CSE - AI/ML) Aug 2023 – Aug 2027
Courses: Data Structures, Analysis of Algorithms, Operating Systems, DBMS, Computer Networks, Artificial Intelligence, Machine Learning, Deep Learning, Cloud Computing, Big Data, DevOps

SKILLS SUMMARY

- Languages:** Python, JavaScript, SQL, Java, R
- AI/ML:** PyTorch, TensorFlow, Computer Vision, Deep Learning, Generative AI, LLMs, Prompt Engineering
- Backend:** Flask, FastAPI, NodeJS, REST APIs
- Databases:** PostgreSQL, MySQL
- Cloud & DevOps:** Docker, AWS, Google Cloud, Firebase
- Tools:** Git, Jupyter Notebook, Hugging Face, OpenAI APIs
- Soft Skills:** Leadership, Team Management, Public Speaking, Problem Solving, Time Management

EXPERIENCE

- Innovexis** Remote
AI & Data Analytics Intern Jul 2026 – Present
 - Client Projects:** Working on client-focused AI and analytics projects involving predictive modeling, automation, and business intelligence solutions.
 - Machine Learning:** Applying machine learning and data-driven techniques to solve real-world business problems and improve decision-making workflows.
- BooleanSyndicate** Hybrid
Technical Head (Part-time) Jul 2025 – Jan 2026
 - Mentorship:** Mentored 50+ students in programming, project development, and hackathon preparation.
 - Leadership:** Led technical sessions and peer-learning initiatives focused on software development and problem-solving.

PROJECTS

- DeepShield (Deepfake Detection System, Deep Learning, Computer Vision, Web App):** Designed and developed a production-grade deepfake detection system using a calibrated three-model ensemble (XceptionNet, EfficientNet-B4, Vision Transformer), achieving **90.1% accuracy** and **0.9517 AUC-ROC** on unseen DFDC face-swap benchmarks after training on **140,000+ images** across **6 datasets**. Features include Grad-CAM and signal-contribution explainability, multi-face detection, frame-by-frame video analysis with audio-visual sync and face identity tracking, FFT frequency forensics, EXIF metadata inspection, social media recompression handling, batch processing, PDF forensic report generation, and a FastAPI REST API. Deployed on Hugging Face Spaces. **Tech:** Python, PyTorch, XceptionNet, EfficientNet-B4, ViT, Streamlit, FastAPI, OpenCV, InsightFace, timm, Grad-CAM, Hugging Face Spaces.
- Intelligent Rooftop Solar Potential Assessment System (AI, Computer Vision, Cloud Deployment):** Developed an AI-powered rooftop solar assessment platform that analyzes satellite imagery to estimate solar energy potential, recommend optimal panel layouts, and generate ROI projections. Integrated AI-based roof segmentation, solar potential estimation, installation recommendations, and financial analysis into an interactive web application deployed on Hugging Face Spaces. **Tech:** Python, Streamlit, OpenRouter API, OpenCV, NumPy, TensorFlow, Docker, Hugging Face Spaces.
- Flow Compiler (Compiler Design, Data Pipelines, AI-Assisted Development):** Designed and developed a lightweight domain-specific compiler that converts human-readable `.flow` scripts into optimized Python (Pandas) data pipelines. Implemented lexical parsing, AST generation, semantic validation, AI-powered syntax correction, pipeline chaining, CLI execution, and CSV I/O. Published a VS Code extension for syntax highlighting and language support. **Tech:** Python, Pandas, Rich, JSON, Regex, CLI, VS Code API, Git.
- ChronOS (CPU Scheduling Simulator, Operating Systems, Data Visualization):** Built an interactive CPU scheduling simulator supporting FCFS, SJF (Preemptive & Non-Preemptive), Priority, and Round Robin algorithms with configurable quantum. Implemented real-time D3.js Gantt chart visualization, algorithm comparison, multi-core simulation, performance metrics (CPU utilization, throughput, waiting/turnaround time), light/dark themes, and PDF report export. **Tech:** HTML5, CSS3, JavaScript, D3.js, jsPDF, Netlify, Git.

CERTIFICATIONS

- Build with AI Bootcamp - Google for Developers** June 2026
- LLM Engineering: Master AI, Large Language Models and Agents - Udemy** Jul 2025
- AI & Machine Learning Workshop - IIT Delhi / World Technocon** May 2025
- Google Cloud Study Jam - Google** Jan 2024
- IBM Z Day 2024 - AI & Data Certificate** Oct 2024
- IBM Z Day 2024 - Z Skills Certificate** Oct 2024
- GDG on Campus Solution Challenge - GDG** Aug 2025

AREAS OF INTEREST

Artificial Intelligence, Machine Learning, Generative AI, Computer Vision, LLM Engineering, Data Analytics, Backend Development, Cloud Computing