

Pushkal Pratap Singh

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EDUCATION

SRM Institute Of Science And Technology

Bachelor of Technology, Computer Science (2023-2027)

Ramapuram, Chennai

Cumulative CGPA (Sem 1-4) 8.9

SKILLS

- **CS Fundamentals:** Data Structures, Algorithms, Operating Systems, DBMS, System Design.
- **Tech Stack & Languages:** C++, Python, ML, Agentic AI, n8n, NLP Pipelines, RAG Pipelines, Microservices, REST API, PostgreSQL, Pinecone, Docker Git, CI/CD, Code Reviews.
- **Cloud/Deployment:** AWS, Azure, Cloudflare, Vercel.

WORK EXPERIENCE

Tranquiex

Backend Developer Intern

Remote

Dec 2025-Present

- Built backend APIs and managed databases for reliable application functionality.
- Worked with frontend teams to implement features and resolve bugs.

Outlier AI

AIML Developer and Model Tester

Remote

Jan 2025-Present

- Developed, tested, and validated AI/ML models to ensure accuracy, efficiency, and reliability.
- Conducted model evaluation, prompt optimisation, and dataset quality checks to improve outputs.

PROJECTS

Nyay Samiti

- Developed end-to-end legal NLP pipelines using Legal-BERT, LayoutLM, and spaCy for classification, risk detection, and summarization.
- Built and deployed scalable FastAPI microservices with Docker, enabling multilingual support, clause segmentation, and streamlined API delivery.

Agentic AI and RAG Pipeline Automation

- Built scalable RAG pipeline with n8n, Gemini, Pinecone for automated ingestion and retrieval.
- Implemented low-code AI pipelines integrating LLM agents, memory buffers, and real-time Q&A systems.

AI Based Resume Builder and Checker

- Built a resume analysis model trained on resume data to assess ATS keyword compatibility.
- Improved resume screening efficiency through automated keyword and role-matching logic.

AI Cleanup Platform

- Applied a YOLO object detection model to identify and localize objects in image and video data.
- Performed image preprocessing, result evaluation, and performance analysis of detection outputs.

ACHIEVEMENTS OR AWARDS

SIH 2025 Finalist.

DEVFEST 2025 - Attended the DEVFEST 2025 organized by GDG Chennai in IIT Madras Research Park.

IIM Bangalore - Attended NSRCELL SummitUp 2024, understanding the technical industry.