

# SASWATA KUMAR DASH

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## EDUCATION

**Vellore Institute of Technology, Chennai** *September 2021 - June 2025*  
*Bachelor of Technology in Computer Science and Engineering (Cyber-Physical Systems)* *CGPA: 8.49*

## EXPERIENCE

**Tata Consultancy Services (TCS)** *November 2025 – Present*  
*System Engineer* *Chennai, Tamil Nadu*

- **Currently undergoing training** in **Java**, **Web Technologies**, and the **Spring Framework**, focusing on enterprise application development and industry-standard software practices.

**The Allin Tech** *January 2025 – November 2025*  
*Founder & CEO* *Keonjhar, Odisha*

- **Founded and led** The Allin Tech, an AI-focused technology company, overseeing product vision, system architecture, and end-to-end solution delivery.
- **Built and deployed AI chatbots** and **web applications** using **Next.js**, **FastAPI**, and **LLMs** for business use cases.
- **Implemented Model Context Protocol (MCP)**-based systems to enable contextual reasoning and multi-agent AI workflows.
- **Worked directly with clients** to gather requirements and deliver AI-driven solutions aligned with business needs.
- **Mentored students** via e-learning platforms in **Python** and **Artificial Intelligence**.

**U2XAI** *August 2025 – November 2025*  
*AI Developer Intern* *Remote, New York, USA*

- **Developing and deploying full-stack AI applications** on **Google Cloud Platform (GCP)**, leveraging **FastAPI**, **TensorFlow**, **Claude Code**, and **GitHub Copilot** for intelligent and scalable cloud solutions.
- **Working with MCP server infrastructures** and **Claude Desktop** to create multi-agent workflows, automate contextual reasoning, and manage dynamic AI pipelines.
- **Designing and maintaining supply chain forecasting solutions**, performing **data cleaning**, **feature engineering**, and **time-series model training** using **GCP BigQuery** and **GCP Buckets**.
- **Building and deploying advanced Retrieval-Augmented Generation (RAG) pipelines** on **Vertex AI**, integrating **vector search**, **document embeddings**, and **Neo4j graph databases** for intelligent data retrieval.
- **Implementing and orchestrating n8n automation agents** to connect AI models, APIs, and cloud workflows, enhancing real-time decision-making and enterprise intelligence.

**Tomas Bata University in Zlin | Experience Certificate** *May 2024 – July 2024*  
*AI Research Intern* *Zlin, Czech Republic*

- **Spearheaded meta heuristic optimization** research using **LLMs** under Prof. Roman Senkerik with a **4-member team**.
- **Improved LLaMA 2** performance on custom datasets, boosting solution **accuracy by 18%**.
- **Benchmarked over 3 hyperparameter-tuning frameworks** using randomized meta-heuristic problems, generating detailed performance comparisons to identify top-performing configurations.
- **Resolved token drift** in OpenAI agents using advanced **prompt tuning**, **reducing error by 12%**.

**Teralumen Solutions Pvt Ltd | Experience Certificate** *August 2023 – December 2023*  
*AI Intern – BioTech* *Chennai, India*

- **Engineered SVM, RF, and CNN models** for **cancer detection** from Terahertz scans, increasing diagnostic accuracy by **up to 10%** across medical imaging tasks.
- **Attained 92% accuracy (CNN)**, **88% (RF)**, and **87% (SVM)** across a labeled dataset of over 1,000 biomedical images.
- **Streamlined OpenCV preprocessing** for biomedical datasets and shared insights across 5+ **biotech research panels**.

## PROJECTS

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### FED UP – AI Emotional + Productivity Companion | [Next.js](#), [LLMs](#), [TypeScript](#), [Firebase](#), [Web Speech API](#) | [Live Demo](#)

- **Launched** a dual-persona AI assistant with **Bestie Mode** for emotional support and **Pro Mode** for technical mentorship; currently in **open beta** with 45+ active users.
- **Architected** Firestore-powered cross-device sync and **fine-tuned** Gemini conversational models for adaptive tone and multi-turn context retention—boosting engagement by 30%.
- **Integrated** voice-to-text, text-to-speech, and planned upcoming features including file uploads and AI-powered call assistance; optimized response handling to improve interaction speed by **45%**.

### PrepR – AI Coding Interview Platform | [Next.js](#), [TypeScript](#), [Gemini API](#), [Vercel](#) | [Live Demo](#) | [Source Code](#)

- **Maintain** a full-stack coding prep platform with **Gemini API**, **Monaco Editor**, and **Google OAuth**; serving **500+** visitors and **50+** registered users.
- **Support 20+ languages**, **30+ company mock rounds**, and integrated **auto-evaluation** for real-time coding feedback.
- **Delivered** downloadable performance reports outlining candidate strengths, weaknesses, and targeted improvement areas, **accelerating** interview readiness by **up to 35%**.

### Bilingual OCR-to-Audio Speech Tool | [Python](#), [FastAPI](#), [CRNN](#), [OpenCV](#), [gTTS](#), [HTML5 Canvas API](#) | [IEEE Paper](#) | [Source Code](#)

- **Developed** a bilingual OCR system using CRNN with LSTM–GRU layers, achieving **92–95% accuracy** for Tamil/English handwritten text captured via trackpad, webcam, and file uploads.
- **Implemented** HTML5 Canvas and OpenCV pipelines for multi-input capture, converting recognized text to speech in under **2 seconds** for low-resource scripts; **Showcased at the IEEE International Conference (ICSES 2024)**.

## SKILLS

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**Languages and Frameworks:** Python, SQL, FastAPI, TypeScript, Apache Spark, Next JS, Java, Spring, Angular

**Libraries and Tools:** PyTorch, TensorFlow, OpenCV, Jupyter, Claude Code, Cursor, MCP, GCP

**Domains of Interest:** Computer Vision, NLP, LLMs, GenAI, Prompt Engineering, SDKs, AI/ML Engineer, Big Data

## ACHIEVEMENTS AND CERTIFICATIONS

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- **Presented** CRNN-based OCR system at **IEEE ICSES 2024** to 100+ international attendees [Certificate](#)
- **Mastered Python and ML** via certified training by IIT Kharagpur faculty [Certificate](#)
- **Achieved 4+** certifications in **Deep Learning, LLMs, Generative AI, DataBricks**, etc [Certificates](#)