Anjishnu Saw

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PROFILE SUMMARY

Software and AI Engineer with strong foundations in Data Structures & Algorithms, backend engineering, databases, and scalable systems. Experienced in building end-to-end software platforms and machine learning experimentation pipelines involving multimodal model architectures, data processing, workflow orchestration, concurrency-safe state management, scientific visualization, and real-time computation. Research experience across international and cross-functional environments.

EXPERIENCE

Research Intern *March 2026 – May 2026* **ELLIS Institute, Finland**

- Built model architectures, experimentation pipelines, and publication-grade evaluation frameworks for generative multimodal fusion research in early psychological distress detection.

Research Assistant *May 2026 – July 2026* **Krea University, Andhra Pradesh**

- Independently designed and built **SciViz**, a full-stack scientific 3D visualization platform, in 2 months as part of a full-time research assistantship.

Director of Research *November 2025 – September 2026* **KIIT Research Society (K-1000)**

- Lead research strategy, publication pipelines, and technical mentorship across 15+ cross-functional engineering and research teams; promoted from Head of Publications.

SELECTED TECHNICAL PROJECTS

SciViz – Scientific 3D Visualization Platform *Next.js, TypeScript, FastAPI, VTK.js*

- Built a full-stack platform spanning 4 scientific domains with VTK, NetCDF, SEG-Y, and OpenFOAM ingestion for files up to 1GB; sustained 60 FPS rendering through Web Workers and reduced client memory usage via lazy-loading and pre-caching for 100+ simulation frames.

KRPMS – Research Workflow & Publication Management System *Next.js, Prisma, PostgreSQL*

- Designed an end-to-end workflow engine across 7 roles using 6-stage submission and 12-state publication workflows; prevented concurrent approval race conditions using atomic database updates, guarded `updateMany`, optimistic UI reconciliation, and `409 Conflict` handling.

KIIT MentorConnect – Mentorship Platform *Next.js, TypeScript, Supabase, PostgreSQL*

- Built and deployed a mentorship platform with real-time messaging, scheduling, emergency alerts, and PostgreSQL Row-Level Security; implemented bulk assignment from Excel/CSV uploads with pending-state reconciliation.

TECHNICAL SKILLS

Languages	Java, Python, C++, TypeScript
Data & Databases	SQL, PostgreSQL, Schema Design, Query Optimization, Data Processing
Backend & Systems	REST APIs, Node.js, FastAPI, System Design, Concurrency
Frontend	React, Next.js, Tailwind CSS
Cloud & DevOps	AWS (EC2, S3, IAM), Vercel, Supabase, GitHub Actions, Linux
Core CS	Data Structures & Algorithms, DBMS, Operating Systems, OOP

EDUCATION

Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar *2023 – Present* B.Tech in Computer Science and Engineering **CGPA: 9.47/10**

PUBLICATIONS & ACHIEVEMENTS

- **MelanomaNet**: Deep Residual Learning for Multi-Class Melanoma Classification. *IEEE ISED 2025.* ROC-AUC 0.947.
- **TAGE-Net**: Hybrid Ensemble for Short-Term Traffic Forecasting. *Springer LNNS 2026.* 45.71% RMSE improvement.
- **German Utility Model**, DPMA Germany, Cloud IC Testing System (2025)