

SOURAV BURMAN

B.Tech, Computer Science & Engineering · Brainware University
Kolkata, West Bengal, India · souravburman.me

+91-8388860882
contact@souravburman.me
linkedin.com/in/thesouravburman

EDUCATION

2023–Present	Brainware University, Kolkata B.Tech, Computer Science & Engineering	8.79 SGPA
2021	Green Point Academy, Asansol 12th (Senior Secondary) – Science	75.4%
2019	St. Ignatius of Loyola, Dhanbad 10th (Secondary Examination)	85.0%

PROJECTS

Jun'26–Present	IGNIS — Full-Stack AI Fitness Web App [Flagship Product · igniswork.vercel.app] - Built a complete personalised fitness platform: 7-step AI onboarding computes BMI, BMR, TDEE, daily calorie budget, protein and water targets per individual profile - Integrated Anthropic Claude AI as in-app health coach delivering personalised health summaries and daily workout motivation; engineered 30-day adaptive calisthenics programme across 3 progressive phases (VITAE → KRATOS → ZENITH) - Server-side anti-cheat date validation, 5-tier milestone badge vault, visual 30-day calendar grid, streak counters and full PWA build (iOS/Android installable) - Stack: Next.js 14 · React · TypeScript · Tailwind CSS · Supabase · Anthropic Claude API · Vercel
2024–Present	Ocular-AI — Smartphone Refractive Error Detection [Lead Author · ocularai.vercel.app] - Designed a software-only vision screening algorithm using smartphone screen-based photorefraction — no specialised hardware required; clinical validation on n=92 patients: Pearson r=0.9857, avg error 0.241D, 85.9% within ±0.5D threshold - Built in Python (OpenCV, MediaPipe) with real-time pupil tracking and 5-level severity classification; research paper authored, advancing toward clinical trials
Sept'25–Nov'25	Vehicle Classifier — Real-Time Traffic Classification [Samsung R&D, Kolkata] - YOLOv8-based CV pipeline classifying live traffic into 5 types (two-wheeler, sedan, SUV, bus, truck) built inside a production R&D environment at Samsung R&D Institute, Kolkata - Integrated deep-learning model with REST APIs to relay live detection results to a reporting dashboard in real time
2024	Market Sentiment Analyser — NLP Intelligence Dashboard NLP pipeline classifying product reviews as positive/negative/neutral using HuggingFace Transformers & VADER; supports real-time analysis and CSV batch upload with interactive Plotly visualisation dashboards

INTERNSHIPS & TRAININGS

Sept'25–Nov'25	AI & API Integration Trainee — Samsung R&D Institute, Kolkata - Completed structured AI & API Integration training programme at Samsung R&D Institute; delivered production-grade Vehicle Classifier pipeline integrating YOLOv8 with REST APIs in a live engineering environment - Worked alongside professional engineers on real-time computer vision systems, gaining R&D exposure to model deployment and API-based reporting pipelines
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Feb'26	Certification — Privacy Preserving Cryptographic Security ISI Kolkata · MeitY/ISEA Phase-III · Feb 23–27, 2026 5-day government-funded intensive at the Indian Statistical Institute: Advanced Encryption, Cryptographic Authentication & Zero-Knowledge Proofs (MeitY, Govt. of India — ISEA Phase-III)
Jun'23–Aug'24	Marketing Coordinator — MyGlam & Subsidiaries, Kolkata - Market research across 50+ offline stores; drove 12% campaign ROI improvement and 20% team productivity gain through sales change management - Contributed to 18% rise in customer acquisition and Rs. 2.5 Lakhs+ incremental revenue through lead conversion and CRO initiatives
Jul'21–Nov'22	Sales Contractor — Croma (Tata Group), Asansol Generated 40+ qualified leads/month via targeted retail outreach; 25% lead-to-sale conversion, surpassing the regional average by 10%

CERTIFICATIONS

Mar'26	Deep Tech Entrepreneurship Foundations — Qualcomm · L2Pro India Score: 100%
Apr'26	Introduction to MS Excel — Microsoft × Simplilearn
Apr'26	National Financial Literacy Quiz 2026 — SEBI · Participant

TECHNICAL SKILLS

Languages	Python · TypeScript · SQL · JavaScript
Frameworks	Next.js 14 · React · Tailwind CSS · Streamlit
AI / ML	Machine Learning · Deep Learning · Computer Vision · NLP · YOLOv8 · MediaPipe · HuggingFace Transformers
Databases & APIs	Supabase · REST APIs · Anthropic Claude API · API Integration
Security	Advanced Encryption · Zero-Knowledge Proofs · Cryptographic Authentication
Tools	Git · GitHub · Vercel · MS Excel (Advanced)

POSITIONS OF RESPONSIBILITY

2021–Present	College Representative (Inter-College Management Events), Brainware University Led teams from the ~2,000-student Management department at multiple inter-college events, consistently advancing to competitive rounds
2025	Best Manager Finalist , X-INOVA'25 — Hall of Fame Finals Advanced to the Hall of Fame Finals in the flagship Best Manager competition, the most prestigious event at the fest
2024	Event Anchor & Public Speaker , Brainware University Anchored CSE Freshers' Event and multiple college-wide functions; speeches recognised for confident stage presence and corporate communication
2019	Captain, School Basketball Team , St. Ignatius of Loyola Led a 12-member squad in Inter-School Tournament competitions, building team discipline and strategic coordination