Shrayash Barnwal

+91 7667188454 | shrayash25.works@gmail.com | LinkedIn | GitHub

EDUCATION

Birla Institute of Technology and Science (BITS), Pilani   2023 – 2027
B.E. in Electrical and Electronics   *Pilani, India*

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, TypeScript, C, C++

Frameworks & Libraries: React, Node.js, Next.js, Tailwind, TensorFlow, PyTorch

Tools & Technologies: Docker, Git, SQL, Firebase, REST APIs, Vite, Agentic AI, NLP, Computer Vision, n8n

EXPERIENCE

Founder, Vetra   Mar 2025 – Present
Vetra
  - Built and shipped a full-stack marketplace (React, Node) enabling smoother influencer–brand collaboration workflows.
  - Ran a 20+ creator beta, translated usage patterns into refined onboarding, pitch flows, and UI improvements.
  - Spoke with 15+ VC firms to refine Vetra's GTM, positioning, and feature priorities based on real market feedback.

Tech Intern   May 2025 – Jul 2025
Deal Nudge
  - Engineered n8n automations to scrape funding data, track startup activity, and sync sector signals into structured datasets.
  - Built a data-cleaning layer that standardized messy info from APIs, scraped pages, and PDFs into query-ready formats.
  - Designed internal tools that eliminated repetitive research steps and reduced manual tracking overhead by 35%.

Software Developer Intern   Mar 2025 – Apr 2025
JP Radiology
  - Built and deployed the Radiology Center's official website, increasing patient inquiries by nearly 40%.
  - Improved search ranking by 30% through Search Console instrumentation and targeted on-page SEO improvements.
  - Reduced load time by 45% through optimized images, layout refactoring, and responsive adjustments.

PROJECTS

Project Echo — AI Email Intelligence System
  - Engineered an AI-driven email intelligence system that parses inboxes, extracts intent, summarizes long threads, detects action items, and ranks messages by urgency.
  - Built automated outreach, follow-up, and reply-generation workflows using contextual understanding of sender, history, and thread state.
  - Integrated triage, summarization, prioritization, and drafting into a unified interface designed to cut daily communication overhead dramatically.

Video-Based Super-Resolution & Occlusion-Aware Facial Recognition Pipeline
  - Built a facial recognition pipeline: detects faces, super-resolves them, classifies occlusion, and routes to the correct model.
  - Benchmarked multiple super-resolution models and selected **Real-ESRGAN** for its stronger perceptual reconstruction.
  - Designed a dual-path system: FaceNet for clean frames and an occlusion-aware model for obstructed faces, chosen via an occlusion classifier.

LinkedIn Automation Engine
  - Developed an AI-powered pipeline that scrapes ecosystem signals, clusters trends, and transforms them into coherent LinkedIn content outlines.
  - Created persona-aware generation modules that adapt tone, vocabulary, and structure to mimic different creator styles.
  - Integrated automated ideation, draft refinement, and scheduling into an end-to-end agentic workflow for hands-free content production.

POSITIONS OF RESPONSIBILITY

Blockchain Developer
BITS Blockchain Club
  - Developed and deployed Solidity smart contracts on Ethereum testnets while exploring tokenomics and contract auditing.

Operations Coordinator
Department of Reception and Accommodation, BITS Pilani
  - Handled accommodation and logistics for 1500+ fest participants through coordinated team supervision.

Design and Events Associate
Creative Activities Club, BITS Pilani
  - Designed and installed large-scale artworks for campus fests, ensuring thematic alignment and high-quality execution.

CERTIFICATIONS

Stanford Online — Machine Learning Specialization (Supervised, Unsupervised, Advanced Algorithms, Reinforcement Learning, Python/TensorFlow)