ANSHPREET SINGH BINDRA

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EXPERIENCE

Sabudh Foundation — Data Science Intern

Jul 2025 – Present | Remote / India

- Worked on real-world datasets applying analytics and ML methods.
- Hands-on experience in preprocessing, EDA, and model building.
- Collaborated with teams to translate business needs into data-driven solutions.
- Built small-scale ML pipelines improving experiment speed by 40%.

LEADERSHIP / PROJECTS

AURA Community, GTBIT — Founder & Lead

2024 – Present | Delhi, India

- Founded and scaled AURA community; leading 50+ students across AI, IoT, ML, EEG, and research.
- Conduct workshops, mentoring, and project guidance.
- Built collaboration frameworks increasing engagement by 150%.
- Managed 10+ technical teams across LLMs, IoT, and BCI projects.

Institution's Innovation Council (IIC)

Head Student Coordinator | Jan 2024 – Dec 2024

- Led and hosted innovation events, expert talks, and keynote sessions as the primary stage representative.
- Managed end-to-end stage operations including speaker coordination, event flow, and professional execution.
- Worked closely with core organizers to script, plan, and deliver impactful and engaging event experiences.
- Ensured smooth communication between participants, speakers, and organizing teams during all IIC activities.

GTBIT Sports Society

Sports Head & Student In-Charge | Dec 2024 – Present

- Oversaw planning, coordination, and execution of major sports events and tournaments during college sports fests.
- Managed athlete registrations, scheduling, and on-ground requirements throughout competitions.
- Led outreach, ceremony planning, and team coordination to ensure seamless event management.
- Supported operational logistics and maintained communication between athletes, teams, and organizing committees.

PROJECTS

ThinkType — EEG-Based BCI Speller System

- Designed a brain–computer interface capable of translating raw EEG signals into letters and words.

- Achieved stable classification accuracy enabling communication-assistive use cases.
- Selected in YUKTI Round 2 from 2.5+ lakh projects for innovation in accessible neuro-technology.

Local RAG LLM Agent — On-Device AI Search System

- Built a fully offline Retrieval-Augmented Generation (RAG) system for local, private information search.
- Integrated vector embeddings, local LLMs, and custom retrieval pipelines to create an adaptive multi-agent AI assistant.
- Designed privacy-preserving architecture suitable for enterprise and confidential workflows.

NeuroLoom — EEG/EMG/PPG Monitoring System

- Developed a real-time neural and biosignal monitoring system combining EEG, EMG, and PPG sensors.
- Achieved 85% interpretation accuracy in detecting physiological and cognitive patterns.
- Built custom dashboards for live visualization and analysis.

MindWave — BCI Word Display System

- Built a real-time BCI interface that maps EEG activity to word outputs for assistive communication.
- Implemented signal preprocessing and lightweight ML pipelines for fast interpretation.

CA GO — AI-Powered Learning Platform

- Designed a CA-focused learning assistant leveraging LLMs and RAG pipelines for syllabus-based personalized help.
- Integrated smart search, notes generation, and adaptive learning modules for improved study productivity.

Meta AI Study — AR/VR Mental Health Platform

- Developed an immersive AR/VR environment for stress tracking and mental-health evaluation.
- Used EEG and AI-based behavioral insights to generate personalized well-being feedback.

PARKO — Smart Car Parking System (IoT)

- Built an IoT-based smart parking system using ultrasonic sensors, Arduino, and Firebase.
- Enabled real-time parking slot detection, monitoring, and mobile availability display.
- Selected at India Innovation Festival (IIF) for its practical real-world utility.

Enhancing Learning Through Metaverse Integration

- Designed an AR/VR educational app powered by AI for personalized timetables, task tracking, and immersive 3D learning.
- Selected for India Innovation Festival (IIF) for its innovative approach to interactive learning.

Smart Door Lock System (IoT)

- Built an intelligent visitor authentication and access-management system using sensors + microcontrollers.
- Implemented secure access protocols and real-time monitoring features.

SKILLS

Technical Skills

Artificial Intelligence & Machine Learning

Expertise in Machine Learning, Deep Learning, CNN architectures, Large Language Models (LLMs), and Retrieval-Augmented Generation (RAG) for building end-to-end intelligent systems.

Data Science & Analytics

Proficient in Python, SQL, NumPy, Pandas, Tableau, Dataiku, and Advanced Excel; experienced in Exploratory Data Analysis (EDA), data preprocessing, feature engineering, and analytical reporting.

IoT & Brain–Computer Interface Systems
Hands-on experience with Arduino, sensor integration, EEG signal processing, neural data acquisition, and designing real-time BCI pipelines.
Tools & Software
Skilled in PowerPoint, Canva, and video editing tools with strong capability in documentation, visualization, and professional presentation design.
Management Skills
Strong leadership and team-handling capabilities; experienced in communication, project management, cross-functional coordination, and guiding technical teams from ideation to deployment.

CERTIFICATIONS & TRAININGS

- SQL Certification
- Data Analytics Certification
- Web Development
- Deloitte Job Simulation
- Tata GenAI Certification
- Java Full Stack Development
- Digital Marketing

EDUCATION

Guru Tegh Bahadur Institute of Technology
B.Tech in Computer Science Engineering | CGPA: 8.3
D.C. Model Sr. Sec. School
Class 12 , 10

PERSONAL INFORMATION

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ACHIEVEMENTS

- ThinkType shortlisted for YUKTI Round 2 from a nationwide pool of 2.5 lakh+ innovations, recognized for advancing EEG-based communication systems.
- Received 2 YUKTI Innovation Nominations for developing novel AI–BCI and LLM-driven solutions.
- Secured 2× Finalist positions at the India Innovation Festival (IIF) for high-impact prototypes in AI, IoT, and Brain–Computer Interfaces.
- Filed one patent based on original research in AI/BCI system design.
- Authored 5 research papers, all accepted in national and international conferences in AI, IoT, and EEG signal processing.
- Received 2 Certificates of Appreciation from the Director of GTBIT for consistent contribution to the institution, leadership excellence, and guiding juniors effectively.