

AYUSHMAN GUPTA

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ABOUT

AI Engineer and full-stack developer bridging custom deep learning architectures with production systems. Experienced in building end-to-end ML pipelines and intelligent workflows using PyTorch, TensorFlow, Python, and TypeScript, with a focus on clean, scalable architecture.

EDUCATION

- **Techno India University | (June 2023 - Current) | Kolkata, India**
B.Tech in CSE(AI & ML); CGPA: 9.03
- **Ballygunge Govt. High School | (April 2021 - March 2023) | Kolkata, India**
Higher Secondary Education in WBCHSE ; Percentage: 71%

SKILLS SUMMARY

- **Programming Languages:** Python, TypeScript, JavaScript (ES6+), C, C++, SQL
- **AI & Machine Learning:** PyTorch, TensorFlow, Scikit-learn, OpenCV, LLMs, Prompt Engineering, Pandas, NumPy
- **Frontend & Backend:** Next.js, React.js, Tailwind CSS, Node.js, Express.js, Flask, Django, HTML5/CSS3
- **Databases & ORM:** PostgreSQL, MongoDB, Neon, Drizzle ORM
- **DevOps & Cloud:** Docker, Git, GitHub, Vercel, Hugging Face, Clerk
- **Soft Skills:** Problem Solving, Adaptability, Communication, Teamwork
- **Languages:** English (Professional), Hindi (Professional), Bengali (Native)

WORK EXPERIENCE

Machine Learning Engineering Intern — IBM (PBEL) | (OCTOBER 2025 - JANUARY 2026) | [LINK](#)

- Engineered predictive machine learning models using Python to analyze complex datasets and extract actionable insights.
- Implemented deep neural networks utilizing TensorFlow, optimizing model architectures for enhanced accuracy and performance.
- Applied targeted prompt engineering strategies to maximize the reliability and contextual accuracy of Large Language Models.

PROJECTS

SOLVEMINT | (MARCH 2026) | [LINK](#)

- Engineered a robust decentralized AI data labeling platform that seamlessly integrates Web3 architecture with machine learning workflows to ensure highly secure and transparent data processing.
- Implemented advanced smart contracts to automate and verify reward distribution for contributors, ultimately securing 1st place at the INNOVAT3 Hackathon for technical innovation.

PULMOSCAN AI | (NOVEMBER 2025) | [LINK](#)

- Architected a comprehensive web-based lung cancer detection system by integrating custom TensorFlow CNN models with a Flask backend to facilitate real-time histopathology image analysis.
- Designed an intuitive, responsive user interface with feature-based diagnostic capabilities, and containerized the entire application utilizing Docker to ensure seamless, scalable deployment.

BLOOM | (NOVEMBER 2025) | [LINK](#)

- Programmed a real-time AI website builder utilizing Next.js, TypeScript, and NVIDIA NIM hosted inference to stream production-ready web interfaces token-by-token.
- Constructed a live interactive canvas using Tailwind CSS and PostgreSQL, featuring direct DOM/chat-based component editing and sub-second render latency.

CERTIFICATES

INNOVAT3 Web3 Hackathon (IEM Kolkata) | (MARCH 2026) | [LINK](#)

- Competed in a rigorous 36-hour Web3 hackathon organized by IIFR and Innovación 2026, rapidly prototyping and deploying blockchain-based solutions under strict time constraints.
- Awarded 1st place overall for architecting 'SolveMint', successfully pitching an innovative decentralized AI data labeling platform to technical judges.

INNOVATEX 1.0 Tech Event (MAKAUT) | (MAY 2026) | [LINK](#)

- Ranked in the Top 8 out of 70+ teams for engineering an intelligent IoT system for real-time food grain pest detection.
- Integrated multi-sensor hardware and deployed an on-device TinyML classification model onto an ESP32 microcontroller for low-power edge inference.