

AYUSHMAN BHATTACHARYA

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Education

JIS University <i>B.Tech Computer Science, GPA: 9.6</i>	2023 – Present <i>Kolkata, India</i>
TIGPSH <i>Science (PCM), 90%</i>	2021 – 2023 <i>Kolkata, India</i>
TIGPSH <i>General, 95%</i>	2009 – 2020 <i>Kolkata, India</i>

Experience

GDG JISU <i>Web Dev Associate</i> <ul style="list-style-type: none">– Worked on web solutions and community projects under GDG JIS University.	2024 – 2025 <i>Kolkata, India</i>
Machine Learning & Devops Engineer <i>Research & Contributions</i> <ul style="list-style-type: none">– Contributed ML models and collaborated on an OSS Pollinations!	2023 – Present <i>Remote/Berlin</i>
Modrinth <i>Mod Developer</i> <ul style="list-style-type: none">– Developed Minecraft Mods using Java Fabric API.	2023 <i>Remote</i>
Discord <i>Bot Developer</i> <ul style="list-style-type: none">– Built and deployed a Discord bot for real-time image generation.	2024 - Present <i>Remote</i>
OSCI Mentor <i>Mentor</i> <ul style="list-style-type: none">– Mentored open-source contributors during OSCI 2025.	2025 <i>Remote</i>
GSSOC Mentor <i>Mentor</i> <ul style="list-style-type: none">– Mentored open-source contributors during GSSOC 2025.	2025 <i>Remote</i>
OSCI Mentor <i>Mentor</i> <ul style="list-style-type: none">– Mentored open-source contributors during OSCI 2025.	2025 <i>Remote</i>
GDG Campus Organiser <i>Campus Lead</i> <ul style="list-style-type: none">– Became the GDG on Campus organiser for JIS University.	2025 <i>Remote</i>

Projects

Elixpo Art <i>Website</i>	2023
– Web interface for AI art generation.	
Full Stack Notes Application	2023
<i>Personal Project</i>	<i>Remote</i>
– Developed a full-stack notes application using Vanilla JS	
Full Stack Chat Application	2023
<i>Personal Project</i>	<i>Remote</i>
– Developed a full-stack chat application using Vanilla JS	
Elixpo Discord Bot	2024
– Discord.js bot for real-time AI image generation.	
Cypher	2024
– AES-based encrypted password manager.	
8-Bit Computer CPU GitHub	2024
– RISC-V based breadboard CPU.	
Full Stack Blogging Website	2025
<i>Personal Project</i>	<i>Remote</i>
– Developed a full-stack blogging website using Vanilla JS	
Python Text to Speech service	2025
<i>Personal Project</i>	<i>Remote</i>
– Developed a Python Text to Speech service using Flask and built a custom HIGGS TTS model for natural inference.s	
Image Compression Algorithm GitHub	2025
– Comparative study on compression algorithms.	
Elixpo Search GitHub	2025
– LangChain-supported semantic search schema.	

Leadership & Volunteering

Google Developer Groups (GDG) <i>On Campus Organizer</i>	Aug 2025 – Present
– Leading GDG on Campus community events, developer workshops, and hackathons.	
GirlScript Summer of Code (GSSoC) <i>Mentor</i>	2025
– Guided open-source contributors during GSSoC 2025.	
Open Source Connect India <i>Mentor</i>	Jul 2025
– Mentored contributors in OSS projects.	
Hexafalls Hackathon <i>Community Manager</i>	2025
– Organized and managed hackathon events.	

Technical Skills

Languages: Python, Java, Go, SQL, C, HTML5, CSS, JavaScript, VHDL

Developer Tools: AWS, Azure, Docker, Jira, Git, Postman, PowerBI, Kubernetes

Libraries/Frameworks: ReactJS, NextJS, VueJS, NodeJS, Spring Boot, PostgreSQL, LangChain

Domains: Full Stack Development, MLOps, DevOps, Low-level Programming, System Design

Awards

Gold SOF NCO 2019

– Awarded Gold medal in SOF National Cyber Olympiad.

LSA exe.BIT Runners 2020

– Secured runner-up position at exe.BIT, Laxmipat Singhania Academy.

Techverse 2.0 Winner 2023

– Winner at GNIT Techverse 2.0.

Techverse 3.0 Winner 2024

– Winner at GNIT Techverse 3.0.

3rd, 2nd SOF NCO 2014, 2018

– Secured 3rd and 2nd positions in SOF National Cyber Olympiad.

Java Programming CBT 2025

– Completed NPTEL Java Programming Computer Based Training.

Hacktoberfest OSS 2024

– Contributed to open-source projects during Hacktoberfest.

Hackathon Codecrafters Domain Winner 2023

– Domain winner at IEM Codecrafters Hackathon.

Publications

**Predictive Analysis of Autism Spectrum Disorder (ASD) Traits:
Integrating Supervised Machine Learning and Exploratory Data Insights | Preprint** 2025

– Applied supervised ML and data analysis to ASD trait prediction.

Decoding the Vulnerabilities of Large AI Models: Practical Demonstrations and Defensive Strategies Against Poisoning, Extraction, and Prompt Injection Attacks | Preprint 2025

– Analyzed and demonstrated attacks on large AI models with defensive strategies.

Exploring Microcode CPU Instructions with RISC 8 Bit Breadboard Computer | International Journal of Enhanced Research in Science Research and Engineering 2025

– Published research on microcode CPU instructions using a RISC 8-bit breadboard computer.