Aryan Mukund Singh

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EDUCATION

Degree	Institute	CGPA/Percentage	Year
B.Tech. (CSE)	Bennett University	8.12	2022-2026
Senior Secondary	GN National Public School	91.6%	2021
Secondary	GN National Public School	90%	2019

PROJECTS

- ⚲ **Stoxie** *[Next.js, MongoDB, Tailwind CSS, Node.js, Better Auth, Inngest, Shadcn UI, Finnhub API]*
  Stock Tracking Web Application — Sept 2025 - October 2025
  - Developed a modern **stock tracking web app** to help users monitor stocks, manage personalized watchlists, and receive **daily stock news via email**.
  - Implemented **real-time stock price updates**, curated **market news notifications**, and personalized email alerts for user-selected stocks.
  - Integrated **Finnhub API** for live stock data and **Nodemailer + Inngest** for background email automation.

- ⚲ **AgentMeet** *[React.js, Next.js, Tailwind, Shadcn/ui, Polar]*
  AI Agent Collaboration Platform — AUG 2025 – Sept 2025
  - Built a real-time platform where users can create, customize, and interact with **AI agents** in live meetings using advanced video/audio technology.
  - Implemented features for **intelligent conversations**, detailed transcripts, recordings, analytics, and enterprise-grade scalability.
  - Showcased diverse applications: **HR training, sales simulations, onboarding, customer support, education, public speaking, and personal development coaching**.

- ⚲ **Eco Drop** *[React.js, Node.js, Next.js, Tailwind, GitHub]*
  Eco-Friendly Marketplace — Jan 2024 - Apr 2024
  - Engineered a full-stack eco-friendly marketplace facilitating trade of **10+ categories** of recyclable materials, streamlining connections between **200+ waste sellers** and recycling businesses.
  - Implemented **5+ advanced filtering options** for buyers to find recyclable materials with **80% improved search accuracy** matching their specific needs.

RESEARCH & PUBLICATIONS

- **Dynamic Workflow Scheduling Using CNN-LSTM and Deep Reinforcement Learning**
  IEEE Conference Template — Under Review
  - Developed a novel DRL framework with DAG-aware LSTM encoder and attention-based GRU decoder for scientific workflow scheduling in cloud environments.
  - Trained over **50 episodes** across **5 CyberShake workflow datasets** (30-1000 tasks), achieving **15-22% makespan reduction** over baseline topological scheduling.
  - Implemented CNN-LSTM architecture with actor-critic learning achieving average Q-value confidence of 0.58 ± 0.21 and training efficiency of 1.48 ± 0.39 **seconds** per episode.

RELEVANT SKILLS

- **Programming Languages:** C++, JavaScript, HTML/CSS, SQL
- **Frameworks & Libraries:** React.js, TailwindCSS, Next.js, Node.js
- **Tools & Platforms:** Git, GitHub, Google Colab
- **Core Skills:** Object-Oriented Programming (OOPs), Teamwork, Problem Solving
- **Soft Skills:** Communication, Adaptability, Critical Thinking

LEADERSHIP & ACHIEVEMENTS

- **Batch Representative** *Bennett University* — *2022-2024*
- **Team Lead** *Group Projects & Hackathons* — *2022-2024*
- **Merit Scholarship Recipient** *Maintained 35% scholarship throughout college tenure* — *2022-2026*
- **Top 15 Finalist** *Smart India Hackathon-BU (SIH-BU)* — *2023*

CERTIFICATIONS

- *AWS Cloud Practitioner*
- *AWS Cloud Technical Essentials*
- *Introduction to Artificial Intelligence (AI)*
- *Programming in C++*