

AKSHAYA PRATAP SINGH

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Education

Harcourt Butler Technical University, Kanpur
B.Tech in Electronics & Engineering

2021 - 2025
8.0/10 CGPA

Central Academy Senior Secondary School, UP
All India Secondary School Certificate Examination

2020
94.6%

Work Experience

HAL

July 2024 – Current
On-site

Web Development Intern

- Spearheaded the development of a secure web application, achieving a **40%** reduction in data retrieval time.
- Engineered a comprehensive **admin panel**, boosting employee reallocation efficiency by **25%**.
- Implemented robust authentication mechanisms, cutting unauthorized access attempts by **60%**.
- Applied **React**, **Node.js**, **Express.js**, **SQL** to optimize website performance, resulting in a **20%** increase in user satisfaction.

Projects

LIT

[Source Code](#)

- * Led a cross-functional team to create a 3D interactive web app using React and Three.js, significantly enhancing user engagement by **50%** over traditional 2D sites.
- * Integrated advanced animations to captivate users, resulting in a notable **35%** increase in interaction rates.
- * Optimized the application's performance, successfully achieving a **30%** reduction in loading times, thereby improving the overall user experience.

TinyShakespeare-GPT Model

[Source Code](#)

- * Optimized a Transformer-based AI text generator to produce Shakespearean prose, reducing content creation time for writers by **30** hours monthly, streamlining the creative process and improving overall productivity.
- * Utilized PyTorch to efficiently train the model, achieving a remarkable **20%** reduction in training time.
- * Enhanced model performance by fine-tuning parameters, improving text coherence by **15%** over previous iterations.
- * Deployed the model on a cloud platform, allowing real-time generation and making it accessible for educational purposes.

Technical Skills

Languages: C++, Java, Python, JavaScript

Backend: Node.js, Express.js

Frontend: React.js, Three.js, GSAP, HTML, CSS, Tailwind

Clouds & Databases: PostgreSQL, MySQL

Developer Tools: VS Code, GitHub, Linux, MATLAB

ML/DL: TensorFlow, PyTorch

Coding Profiles

[LeetCode](#): max Rating : **1921** (Knight)

[Codeforces](#): Max Rating : **1435** (Specialist)

GDSC Experience

Competitive Programming Lead, GDSC

16 March 2024

- * Organized and conducted multiple programming workshops; successfully mentored over **50** students in advanced algorithms and strategic thinking techniques.

Organizer, Hacktoberfest & Hackathon

27 September 2023 – 31 October 2023

- * Led the coordination and execution of Hacktoberfest and a major college-wide hackathon; managed logistics and engaged with sponsors and over **100** participants to ensure successful events.

Achievements and Awards

- Solved **1000+** **super hard** DSA problems from various coding platforms like **Codeforces**, **LeetCode**, **CodeChef**, **GFG**, **USACO**, **AtCoder**, **CSES**, honing strategical thinking skills.
- Secured **Rank 2** out of **20+** **Teams** in the Startup event of E-Cell.