

# Keshav Agarwal

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## EDUCATION

### UNDERGRADUATE (ECE)

BIRLA INSTITUTE OF  
TECHNOLOGY, MESRA

EXPECTED 2026

CGPA: 7.79 (absolute)

### INTERMEDIATE (AISSCE)

DELHI PUBLIC SCHOOL, RANCHI |  
2021

Percentage: 96/100

### MATRICULATION (AISSE)

HOLY MOTHER'S ACADEMY | 2019

Percentage: 96/100

## SKILLS

### PROGRAMMING LANGUAGES

• C/C++ • Python • JavaScript •

Typescript

### WEB DEVELOPMENT

• MongoDB • ExpressJS • ReactJS •

NodeJS • NextJS • ThreeJS • Restful APIs

• Prisma • Mongoose • CSS • SQL •

Chrome Extensions API • Flask

### MACHINE LEARNING

• TensorFlow • Pytorch • Scikit-Learn •

Axolotl • OpenCV • MediaPipe • Yolo •

RAG • GAN • NLP • LlamaIndex •

VectorDB • Foundation Models • SLMs •

LLMs • Transformers

### TOOLS

• Git • Github • Docker • HuggingFace •

AWS

### INTERPERSONAL

• Leadership • Management • Team Work

• Problem Solving • Critical Thinking •

Public Speaking

## COURSEWORK

Programming for Problem Solving

Communication Systems

Signal and Systems

Linear Algebra and Calculus

Probability, Statistics and Random

Processes

## LINKS

Github:// [Keshav Agarwal](#)

LinkedIn:// [Keshav Agarwal](#)

## EXPERIENCE

### SWE INTERN | FutureFlare Technologies | April 2024 - Present

- Worked alongside the team that was responsible for building "Ping", an enterprise browser, build atop of chromium.
- Developed an end to end Kids Mode Extension (Component level). Utilising Chrome Extensions API and chromium architecture.

## PROJECTS

### BLOG WEBSITE | Github | Link

- A feature-rich blog platform with real-time editing capabilities.
- Implemented seamless user authentication using NextAuth v4.
- Ensured data integrity and security with MongoDB and Prisma.

### GITA GPT | Github

- Developed a AI powered Chatbot using ThreeJS and tts API.
- Finetuned a 3 billion parameter LLM and deployed it using AWS SageMaker, leveraging its API for user query responses.
- Passed queries through both the custom model and GPT-4 model, selecting the best response from each, and passing it to OpenAI's Whisper for text-to-speech synthesis (TTS).

### ANIMAR | Github | Link

- A merchandise design store using ThreeJS for immersive 3D product visualization and Framer Motion for dynamic animations.
- Integrated DALL-E through ExpressJS to empower users with AI-powered design customization, fostering personalization.
- Implemented real-time AR filters using OpenCV, MediaPipe, and Flask, allowing users to virtually try on products before purchase.

## POSITION OF RESPONSIBILITY

### UNESQUO - BIT MESRA | WEB COORDINATOR

- Developed and Managed the website for Genesis, handling 500+ registrations with zero downtime.
- Developed and Managed the website for BITMUN, handling 1000+ registrations with zero downtime.
- Managed the recruitment process for the UNESQUO web team.

### IEEE STUDENT BRANCH - BIT MESRA | MEMBER

- Organised and conducted C++ workshop for over 300+ students.
- Organised and managed the recruitment process for IEEE.

## ACHIEVEMENTS

- Winner of 36-Hour Capture The Flag - Pantheon | Oct 2023
- Ranked 3rd in 24 Hour hackathon - Innovate-A-thon
- Qualified Internal Hackathon round - Smart India Hackathon 2023
- Ranked 2nd in ML domain of National Level Hackathon
- Qualified for the Finals of E-Yantra 2023 - IIT Bombay