

# Umang Garg

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## EDUCATION

### R.D. ENGINEERING COLLEGE

B.TECH IN COMPUTER

SCIENCE(AIML)

Grad. July 2025 | Muradnagar, India

### MOUNT CARMEL SCHOOL

Higher Secondary | Muradnagar, India

## LINKS

Github:// [umang](#)

LinkedIn:// [umang](#)

## COURSEWORK

### GRADUATE

Machine Learning

Artificial Intelligence

Advanced Interactive Graphic

Functional Programming

Cloud Computing

Operating System

Computer Networks

### UNDERGRADUATE

Information Retrieval

Operating Systems

Artificial Intelligence + Practicum

Functional Programming

Computer Graphics + Practicum

(Research Asst. & Teaching Asst 2x)

Unix Tools and Scripting

## SKILLS

### PROGRAMMING

Over 5000 lines:

Java(Basic) • TypeScript • Python(Basic) •

JavaScript

LaTeX

Over 1000 lines:

Sass • CSS • Material UI • Bootstrap •

Tailwind

Familiar:

AWS • iOS • Mongo DB • MySQL

## EXPERIENCE

### DOUX LABS | SOFTWARE ENGINEERING INTERN

Aug 2024 – Present | Gurgaon, India

- Contributed as a Frontend Developer on a production-grade project using React.js, TypeScript, Sass, and Material UI, integrating with RESTful APIs for dynamic functionality.
- Gained hands-on experience with AWS services, including EC2, Route 53, CloudFront, and S3 Bucket for deploying and managing web applications.
- Developed and deployed a responsive static website using React.js, JavaScript, and Sass, focused on performance and maintainability.
- Actively collaborated on an open-source project built with PHP, gaining some exposure and contributing code enhancements.
- Built and maintained two React Native mobile applications (TypeScript-based); one published on the Google Play Store, and the second currently under review.

## PROJECTS

### IMAGINARYINK | HTML, CSS, JavaScript, Python, Hugging Face

Built a tool that generates 2D and 3D images from user input images, using AI models trained on large-scale user preference feedback.

Integrated Python and Hugging Face models to enhance learning from user interactions and improve visual output quality over time.

### AI CHAT BOT | Vite Js, Hugging Face

Developed an interactive chatbot using Vite.js and Hugging Face NLP models, where users can enter prompts and receive GPT-like responses in real time.

Focused on building a smooth frontend experience and integrating the AI model for natural, context-aware replies.

### ASPIREVAULT

Built with React Native and TypeScript, ensuring cross-platform compatibility and smooth performance on both Android and iOS devices.

Developed a React Native mobile app that helps users set, track, and manage goals while also enabling them to plan and save money effectively.

Integrated goal tracking, progress visualization, and budget-saving features to encourage consistent habits and financial discipline.

## RESEARCH

### R.D. RESEARCH AND DEVELOPMENT LAB | RESEARCHER

Sep 2024 – June 2025 | Ghazizbad, India

Worked with **Anshul Raj** and **Prof. Hemant Kumar Bhardwaj** to create **Imaginary Ink**, a tool that uses large-scale user preference feedback to generate 2D and 3D images from user input images.

## RESEARCH PAPER PUBLICATIONS

- [1] U. Garg, A. Raj, and H. K. Bhardwaj. Imaginary ink: A novel approach to multi-modal image-to-visual content generation system. *Tech Report, IJFMR*, in press.