

# Abhishek Yadav

Bachelor of Technology  
University of Petroleum and Energy Studies

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## EDUCATION

- B.Tech in Computer Science and Engineering (Fullstack AI)** *Dehradun, India*  
*University of Petroleum and Energy Studies* 2022-26

## TECHNICAL SKILLS

- Languages:** C/C++, Python, JavaScript, HTML/CSS.
- Libraries:** C++ STL, React.js, Scikit,Streamlit,YOLO,Matplotlib,OpenCV.
- Tools:** Node.js, VS Code, Git, GitHub.
- Frameworks:** React,Node.js,Flask,Django,Express,Flutter,Scikit,,SQLite
- Databases:** MongoDB, Firebase, MySQL.

## PROJECTS

- Performance Analysis Between CPU and GPU Compilers**
  - Developed custom compilers using LLVM, CUDA, and OpenCL for vector arithmetic optimization
  - Built lexical analyzers, parsers, and ASTs for effective code analysis..
  - Enhanced performance in matrix multiplication using GPU processing.
  - Benchmarked execution speed between CPU and GPU compilers.
- Realtime Device Tracker**
  - Implemented real-time location tracking using Node.js, Express, and Socket.IO.
  - Designed dynamic data updates and monitored live device movement.
- Realtime Chat App**
  - Built a React.js-based web app for seamless real-time messaging.
  - Integrated MongoDB for user management and Socket.IO for live communication

## EXPERIENCE

- Social Internship**
  - Focused on Event Organization and Awareness*
  - Planned and coordinated events promoting environmental awareness.
  - Engaged with communities to foster eco-friendly practices
- Content and Web Developer**
  - SEO and Web Development*
  - Created SEO-optimized content, improving website traffic and engagement.
  - Developed and managed user-friendly websites to enhance user experience.
- Freelance Web Developer**
  - Responsive Web Design* Online
  - Delivered tailored web solutions focused on responsiveness and performance.
  - Collaborated with clients to meet project requirements and expectations.

## ACCOMPLISHMENTS

- Organized an international hackathon with participation from over 100 teams.
- Competed in Smart India Hackathon and Flipkart Grid 6.o..
- Technical member of the Computer Society of India (CSI) at UPES.