Prateek Mani Tripathi

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EDUCATION

- **Roorkee College of Engineering** — *Roorkee, UK*
  B.Tech, Computer Science & Engineering — *2022 – 2026*
- **Government Jubilee Inter College** — *Gorakhpur, UP*
  Class 12th — *2021*
- **Government Jubilee Inter College** — *Gorakhpur, UP*
  Class 10th — *2019*

TECHNICAL SKILLS

- **Programming Languages:** Python, C++
- **Generative AI:** Chat Models, LangChain, Document Loaders, Prompt Engineering, Retrievers, Runnables (LCEL), Text Splitters, Structured Output, Vector Stores
- **Frontend:** HTML, CSS, JavaScript, React.js, Next.js
- **Backend:** Node.js, Express.js, FastAPI
- **Database:** MongoDB, Redis
- **Cloud (AWS):** IAM, EC2, EBS, AMI, ELB, S3, DynamoDB, Lambda, VPC, Route 53, CloudFormation, CloudFront, AWS CLI, CloudWatch, SNS, SQS
- **Tools & Platforms:** VS Code, Postman, Vercel, Netlify, Render
- **Web Technologies:** WebSockets, Rate Limiting

PROJECTS

- **SkillExchange** — Live Demo | GitHub Repo
  A full-stack skill-bartering application with real-time chat and an AI assistant.
  - Engineered a real-time chat system using Socket.io with live presence, typing indicators, and read receipts.
  - Integrated a "SkillScout" GenAI assistant (Hugging Face API) for instant, 24/7 user support.
  - Built a secure user management system with JWT authentication, CRUD operations, and advanced search filters.
  - **Tech Stack:** Next.js, React, Node.js, Express.js, MongoDB, Socket.io, JWT, Tailwind CSS.

- **Barber Shop - Appointment Booking System** — Live Demo | GitHub Repo
  Integrated a full-stack appointment booking system into a static website to automate scheduling.
  - Developed a complete booking flow with dynamic service/time selection powered by a Node.js backend.
  - Implemented secure user authentication (GitHub/Google) using NextAuth.js.
  - Created an automated email notification system for booking confirmations using EmailJS.
  - **Tech Stack:** Next.js, React, Node.js, Express.js, MongoDB, NextAuth.js, EmailJS.

CERTIFICATIONS

- React Native by Meta - Coursera
- Developing Back-End Apps with Node.js and Express by IBM - Coursera
- Developing Front-End Apps with React by IBM - Coursera
- Advanced React by Meta - Coursera