Md Istiaq Ahmed

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Education

Southeast Missouri State University   Jan 2022 – Dec 2025
Bachelor of Science in Computer Science   Cape Girardeau, MO

Experience

Software Engineer   Oct 2024 – Jun 2025
Cran US LLC   Cape Girardeau, MO
- Co-founded and built core product functionality, developing RESTful APIs with Node.js, Express, Supabase, and Clerk for real customer needs.
- Partnered with clients to turn requirements into deliverables; wrote and tested API endpoints and supported smooth frontend-backend integration.
- Improved UI reliability/performance in Next.js + Tailwind by optimizing component rendering.

Operations Center Assistant   Sept 2024 – Present
Southeast Missouri State University   Cape Girardeau, MO
- Contributed to workflow improvements by standardizing intake steps and assisted users with clear communications.

Computer Science Tutor   Jan 2023 – Apr 2023
Southeast Missouri State University   Cape Girardeau, MO
- Tutored 1:1 and small groups in Python/Java and Unix/Linux fundamentals which helped students debug assignments and strengthen problem-solving habits to boost confidence.

Projects

Negotiation AI | Groq AI, Nextjs, Shadcn, Supabasse, Vercel   Jan 2025 – May 2025
- Created a Next.js real-time chat user interface for an *LLM-driven negotiating* coaching software (Groq + LLaMA 3.1) with prompt templates for role-play situations and structured feedback were also implemented.
- Integrated PostgreSQL for storing conversation history and implemented auth with Clerk and deployed on Vercel.

Inscript AI | Nextjs, Tailwind, Clerk auth, Express, Nodejs, Gemini API, Drizzle ORM   Apr 2025 – May 2025
- An AI-driven content outlining tool that transforms keywords into structured content ideas.
- Built with Next.js, Clerk, Drizzle ORM, Neon, and Shadcn for a modern, scalable full-stack architecture.
- Implemented real-time user input handling and AI-generated output with seamless GitHub version control integration.

Calorie Expenditure Prediction| Python, Pandas, NumPy, Sci-kit, Jupyter Notebook   Jan 2025 – Apr 2025
- Built an end-to-end machine learning regression pipeline to predict calorie expenditure, starting from raw data through model evaluation.
- Preprocessed data using scaling and PCA, then tested multiple models to compare performance.
- Trained and evaluated multiple regression models using train/test splits and performance metrics to compare predictive accuracy.(MSE, MAE, and R^2)

Technical Skills

Languages : Python, Java, JavaScript, C/C++, SQL (Postgres)
Frameworks : React, Node.js, Nextjs, RestAPI
Tools : Git, GitHub, VS Code, Postman, Jupyter Notebook
Lib: NumPy, Pandas, Scikit-learn