

AMLENDU SHEKHAR

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EDUCATION

Master of Science (MS), RWTH Aachen University, Germany
Data Science

April 2024 - present

Bachelor of Technology (B.Tech), AKTU, Uttar Pradesh, India
Computer Science And Engineering - Grade 1.9

August 2018 - August 2022

SKILLS

Prog. Languages	Python, C#, Java, JavaScript and TypeScript
Frameworks	.NET, Angular, NodeJS, React, Vitest and Flask
Interests	Software Architecture, Data Science, Machine Learning and Cybersecurity
Familiar with	Claude Code, DBMS, Git and GitHub, Linux, GraphQL and OWASP Top 10

EXPERIENCE

RWTH Aachen
Scientific Assistant (HiWi)

June 2026 - present

- Tech - React, TypeScript, Django, Claude Code, Object-Centric Process Mining
- Working on a Temporal Object-Type Miner (ToTEM tool) which is used for analyzing Object-Centric Event Logs (OCEL).
- Implemented the Object Centric Causal Nets in the tool. Users can discover an Object-Centric Causal Net (OCCN) from an OCEL and explore it as an interactive, auto-laid-out dashboard component

trivago, Düsseldorf
Software Engineer Working Student

November 2024 - April 2026

- Tech - React, Node, TypeScript, GraphQL, Vitest, MySQL, Material-UI and MCP (Model Context Protocol)
- Developed and maintained an administration platform managing advertisers and accommodations.
- Participated in architectural design sessions to evaluate tools and align technical decisions across the team.
- Built full-stack features using React, Node.js and TypeScript; leveraged GraphQL to orchestrate data flow across frontend, backend, and external services.
- Wrote unit tests using Vitest for all developed functionalities, ensuring high code quality.
- Followed strict code review practices including SOX compliance checks, AI-assisted review (CodeRabbit), and peer reviews. Utilized LLMs with MCP servers to improve development workflows.

Gemini Solutions, Gurugram
Software Engineer L1

August 2021 - April 2024

- Tech - C#, ASP.NET, MVC, Entity Framework, JavaScript, LINQ, Azure, Socket.io, SSMS and MySQL.
- As a Full-Stack .NET Developer, I provided valuable contributions to a US based client's project, delivering results and insights that met their business objectives.
- Worked on various components of MIS (Management Information System).
- Developed code and db components and performed optimization and testing for multiple functionalities.

AptCoder, Virtual
Web Designer

October 2020 - January 2021

- Developed a comprehensive UI for [AptCoder](#) from scratch.

- Tech - HTML/CSS, Javascript, Python3 and Django

PROJECTS

Car Price Prediction

- Tech - Flask, HTML, CSS, JavaScript, Machine Learning, GCP App Engine, Git and GitHub
- It is a website for Indian car price prediction for reselling. Provide details like City/Year of purchase, mileage , kilometers driven, engine, power, etc. and predict your car's current worth.
- Performed data cleaning, feature engineering and selection, encoding categorical variables and handled missing data.
- Trained a linear regression model. Used pickle to serialize the trained model and used pkl file for deployment.
- GitHub-Repo:[Vasu021/Car-Price-Prediction](#) Website:[indigo-altar-308108.uc.r.appspot.com](#)

MyTryHackMe

- Tech - Kali Linux, nmap, Burp Suite, Wireshark, Metasploit, Network Security, OSINT and Sherlock.
- Successfully pwned 44 machines and have collected 12 skill badges.
- Current Level and Badge - [8][H4CK3R] (Peak rank 122 in India).
- Profile:[tryhackme.com/p/Vasu021](#) GitHub-Repo:[Vasu021/tryHackMe](#)

CERTIFICATES

AWS Certified Solutions Architect - Associate (Aug 2024 - Aug 2027)

- Built an understanding of designing secure, high-performing, resilient, and cost-optimized architectures on AWS.
- Gained foundational knowledge of EC2, S3, RDS, VPC, IAM and various other AWS Services to implement scalable and fault tolerant solutions.
- Developed the ability to optimize cloud-based workloads for cost efficiency while adhering to security best practices and industry standards.
- Validation Number - 29dc9cae60fa4208884a046c57792b41

LANGUAGE SKILLS

Hindi - Native or bilingual proficiency

English

- Proficiency Level - C1
- Full professional proficiency (IELTS - 7.5 or C1)

German

- Proficiency Level - A2
- Elementary proficiency

HOBBIES AND INTERESTS

Programming

- I enjoy and regularly engage in problem solving challenges and hackathons.
- I am a 6 star problem solver on HackerRank and have solved 150+ questions on LeetCode.
- Profiles - LeetCode:[Vasu021](#) HackerRank:[CaptainShekhar](#) DataWars:[amlendushekhar828](#)

Chess and Sports

- I enjoy playing the game of chess. Online Chesscom rating - 1500+ ([Vasu008](#)).
- Sports enthusiast with interests in badminton, cricket, tennis and softball.