Mukesh Gautam

Bachelor of Technology
Computer Science Engineering
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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech in CSE	Sikkim Manipal Institute of Technology	8.07	2024
Senior Secondary	Macro Vision Academy, Burhanpur	75.6	2020
Secondary	Macro Vision Academy, Burhanpur	78.2	2018

EXPERIENCE

- **WIPRO**   March 2025 - Present
  Project Engineer   Hyderabad, India
  - Contributed to the development and enhancement of RESTful APIs using ASP.NET Core (.NET 8), following clean architecture and standard coding practices.
  - Worked on .NET 8 Minimal APIs (C#) to implement and maintain backend endpoints used by client-facing features.
  - Integrated backend APIs with React frontend components, ensuring reliable data flow and well-defined API contracts.
  - Improved code quality and stability by writing unit tests with MOQ for service-layer logic.
  - Collaborated with senior developers, QA, and frontend teams to deliver feature updates and bug fixes aligned with business requirements.

- **IIT BHU (Banaras Hindu University)**   Jan 2024 - July 2024
  Research Intern   Varanasi, India
  - Developed a deep generative model to identify novel 2D materials.
  - Conducted data preparation including extraction, preprocessing, and featurization from multiple databases (Materials Project, C2DB, 2DMatpedia, C1DB, MC3D).
  - Generated 100,000 new material formulas using a GAN model, with 17,949 valid and unique formulas after applying validity checks.
  - Screened potential 2D materials using a Random Forest classifier, resulting in 1,492 screened 2D formulas.
  - Predicted properties of the valid 2D formulas utilizing Pymatgen.

PROJECTS

- **Task Tracker - Full Web Application**   .Net Core Minimal API, Azure, SQL Server React
  - Built a full-stack task management application with JWT-based authentication and secure CRUD APIs.
  - Designed offline-friendly guest mode, allowing users to create tasks locally and sync them after login.
  - Implemented task features including priorities, categories, recurrence patterns, and due dates.
  - Deployed backend and frontend on Azure App Service, handling CORS, cold-start issues, and production debugging.
  - Optimized SQL queries and indexing to ensure scalable task retrieval and updates.

- **Flower Detection & Classification**   Python, TensorFlow, NumPy, Pandas
  - Built an AI-powered flower classification web app using a custom CNN model with ~92% accuracy.
  - Implemented a FastAPI REST backend for image upload, preprocessing, and inference.
  - Reduced response time to ~1.5s using in-memory caching.
  - Deployed using GitHub Pages and cloud hosting with a basic CI/CD workflow.

- **The Auction Management System**   .Net Core Minimal API, React, In-Memory DB
  - Developed a full-stack auction platform with role-based access control (Admin/User) using JWT authentication.
  - Applied Repository Pattern, Dependency Injection, and Singleton pattern to maintain clean architecture.
  - Built React dashboards for Admin and Users with auction creation, bidding, and bid history tracking.
  - Wrote unit tests using MOQ to validate service-layer logic.

SKILLS

- **Languages**: C++, HTML/CSS, JavaScript, C#
- **Frameworks/Libraries**: React.js, Node.js, Material-UI, Pandas, NumPy, Matplotlib, .Net, NET Core
- **Tools/Platforms**: Github, VS Code, Postman, Azure
- **Databases**: MongoDB, MySQL, SQL Server, In-Memory DB

CODING PROFILES

- GeeksForGeeks: Solved 300+ DSA problems on GfG   GG

CERTIFICATIONS

- The Complete 2022 Web Development Bootcamp - Udemy   *Aug 2022*
- SQL and Relational Databases 101 - Cognitive.ai   *Jun 2021*
- React 18 Tutorial and Projects course (2023) - Udemy   *Aug 2023*
- Microsoft Certified: Azure Fundamentals   *May 2025*
- GitHub Co-Pilot - GitHub   *June 2025*

ACHIEVEMENTS

- Semi-Finalist in Code Gladiators 2023 & 2024 (Techgig)
- Ranked 180/1482 in MTS DSA Intern Hiring Challenge 2024 (GeeksforGeeks)