

Ovi Poddar

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Research Experience

Undergraduate Research Work, Bangladesh University of Engineering and Technology (BUET)	February 2022 – April 2023
• Conducted research on deep learning-based classification of code review comments, integrating natural language and Abstract Syntax Tree based changes. Demonstrated significant(19%) performance improvement over existing models. • Supervisor: Dr. Anindya Iqbal	

Academic Credentials

Bangladesh University of Engineering & Technology (BUET), BSc in Computer Science and Engineering	March 2018 – May 2023
• CGPA: 3.61/4.00 • Coursework: Object Oriented Programming Language, Digital Logic Design, Discrete Mathematics, Computer Architecture, Data Structures & Algorithms, Computational Theory, Software Engineering, Operating Systems, Computer Networking, Security, Computer Graphics, Machine Learning, Database Management, Bio-informatics, High Performance Database System, Algorithms Design	

Publications

Towards Automated Classification of Code Review Feedback to Support Analytics	ESEM 2023 · Jul 7, 2023
Asif Kamal Turzo, Fahim Faysal, Ovi Poddar , Anindya Iqbal, Amiangshu Bosu arxiv.org/abs/2307.03852	

Experience

Software Development Engineer, IQVIA – Dhaka, Bangladesh	Feb 2024 – Current
• Built a cloud-based storage and document management system (OneDrive-like) using .NET Core, Angular, and AWS S3 as part of IQVIA's core platform. • Developed secure and scalable backend modules with authentication, role-based access, and reliability improvements across distributed services. • Improved system performance by resolving critical production issues , optimizing database-heavy workflows, and enhancing user experience. • Contributed to platform components including document management, portal administration, and authentication services with new features and security updates. • Joined the Digital Navigator Enhancements team to build AI-driven enterprise assistants integrating LLMs, Text-to-SQL agents, and multi-agent orchestration on top of IQVIA's Snowflake ecosystem. • Implemented Model Context Protocol (MCP) for agent communication and contextual grounding across Navigator services. • Designed prompting strategies for KPI summarization and scorecard insights , and validated outputs against business rules and measurement methodology. • Reviewed Snowflake schemas and KPI definitions to ensure accurate and reliable agent-generated insights.	

Software Engineer I, Enosis Solutions – Dhaka, Bangladesh	June 2023 – Jan 2024
• Developed hands-on expertise in ASP.NET Core, C#, Angular, Microsoft SQL Server, and Entity Framework Core . • Contributed to an e-learning, education-focused web application , implementing new features, optimizing performance, and ensuring high scalability. • Designed and delivered enhancements, resolved complex bugs, and improved overall system stability and maintainability. • Collaborated with cross-functional teams to refine requirements, enhance code quality, and ensure timely delivery of business-critical solutions.	

Projects

MCP Weather Agent – Multi-Agent System with Gemini & MCP

[Github](#)

- Built a multi-agent assistant using the **Model Context Protocol (MCP)** with custom Weather (Go) and Calculator (Python) servers to handle real-time weather queries and arithmetic operations.
- Integrated **Google Gemini 2.5 Flash** and **LangGraph** to orchestrate tool-aware reasoning, enabling dynamic selection of MCP tools and generating structured responses.
- Implemented secure agent–tool communication pipelines, supporting mixed reasoning tasks such as combined weather retrieval and computational queries.
- Tools Used: Python, Go, LangGraph, MCP, Google Gemini API.

InfoScope AI – Intelligent News Insight Engine

[Github](#) | [Youtube](#)

- Developed a news insight engine leveraging LangChain, FAISS, and OpenAI APIs to extract, index, and analyze data from multiple web articles or uploaded text files.
- Implemented a Streamlit-based interface allowing users to query the indexed information and receive context-aware, citation-backed answers.
- Built retrieval-augmented generation (RAG) pipeline for dynamic question answering.
- Tools Used: Python, LangChain, FAISS, OpenAI API, Streamlit.

Compass - Local Business Review Site

[Github](#)

- Built a full-stack **MERN** application where users can discover local businesses, create business profiles, leave reviews, provide star ratings, and upload photos.
- Designed REST APIs for business and review management and implemented a responsive UI for smooth navigation.
- Tools Used: Node.js, Express.js, React.js, MongoDB.

Social Shout - Social Media Platform

[Github](#)

- Developed an Instagram-like social networking platform supporting account authentication, photo sharing, following, likes, comments, notifications, and chat.
- Implemented real-time messaging and a scalable backend to handle multiple user interactions simultaneously.
- Tools Used: Django, Python, HTML, CSS, JavaScript, Oracle Database

Technical Skills

Languages: C++, C, Java, Python, C#, SQL, JavaScript, HTML, CSS

Frameworks: .NET, Django, MERN Stack, Entity Framework Core

Databases: PostgreSQL, MongoDB, MS SQL Server

Libraries: NumPy, Pandas, Scikit-learn, TensorFlow, Matplotlib

Tools & Platforms: Git, Linux, AWS S3, Robot Framework

Linguistic Proficiency

- English (Fluent Working Proficiency)
- Bangla (Native Language)

Awards and Achievements

- Competitive programmer with **2500+ solved problems** on [Codeforces](#), [LeetCode](#), and other platforms, demonstrating expertise in algorithms, data structures, and optimized problem-solving.
- Recognized with the **Silver Award at IQVIA** for delivering higher-than-expected contributions, taking ownership in the absence of a tech lead, and ensuring stability, timely feature delivery, and smooth client product releases as part of the CORE team.
- Awarded the **Talent Pool Scholarship** in both Secondary and Higher Secondary Examinations in Bangladesh for outstanding academic performance.

References

Sonu Varma

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Dr. Anindya Iqbal

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