

# Ovi Poddar

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## Research Experience

**Undergraduate Research Work,** February 2022 – April 2023  
Bangladesh University of Engineering and Technology (BUET)

- 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),** March 2018 – May 2023  
BSc in Computer Science and Engineering

- 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](https://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

Associate Director of Software Development at IQVIA  
Pennsylvania, United States  
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### Dr. Anindya Iqbal

Professor, Dept. of CSE  
Bangladesh University of  
Engineering and Technology  
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