Ovi Poddar

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Research Experience

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

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.

Agentic Chatbot – LangGraph-Based Multi-Tool AI Assistant   `Github`
- Designed a stateful agentic AI assistant using LangGraph to orchestrate multiple task-specific agents within a unified workflow.
- Implemented modular agents for conversational chat, real-time web search, and AI-driven news aggregation with summarization.
- Integrated external tools including the **Tavily Search API** and **Groq-hosted LLMs**, enabling tool-aware reasoning and dynamic routing.
- Developed an interactive Streamlit-based interface with graph-level state management to support robust multi-turn interactions.
- Tools Used: Python, LangGraph, Streamlit, Groq LLMs, Tavily API.

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.