

# Ovi Poddar

Dhaka, Bangladesh | ovipdr.202575@gmail.com | +8801521114325 | ovi-poddar.github.io  
linkedin.com/in/ovi-poddar | github.com/Ovi-Poddar

## Research Interest

My research lies at the intersection of Artificial Intelligence, Software Engineering, and System & Network Security, focusing on developing semantics-aware and trustworthy AI systems. I integrate large language models (LLMs) and natural language processing with program analysis to advance automated software understanding, debugging, and vulnerability detection, aiming to build intelligent, interpretable systems that support reliable and secure software development. More broadly, I am interested in applying LLMs and domain-adaptive NLP for structured knowledge extraction and reasoning from unstructured textual information, including anomaly and security analytics, biomedical text mining, and question answering, to create robust, cross-domain AI systems capable of understanding and generating complex technical and natural language.

## 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 code context. Demonstrated significant 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

- Contributed to the development of a **cloud-based storage management application** (similar to OneDrive) leveraging **AWS S3**, working on both **frontend (Angular)** and **backend (.NET Core APIs)**.
- Designed and implemented **scalable, maintainable** features that improved application functionality and user experience.
- Collaborated in the **core team**, focusing on **authentication, security, and system reliability**.
- Investigated and resolved **performance issues and critical bugs**, ensuring high system stability.
- Worked with a diverse technology stack: **.NET Core, C#, Angular, PostgreSQL, Entity Framework Core, Python, Robot Framework**.

**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

### 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

### Simple Alarm Clock – ATMEGA32 Interfaced with SD-Card Module

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

- Designed and implemented a digital alarm clock system using **ATMEGA32 microcontroller** integrated with an **SD-Card module** for data storage.
- Tools/Technologies Used: C, Proteus, ATMEGA32, SD-Card Module

## 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  
sonu.varma@iqvia.com

### Dr. Anindya Iqbal

Professor, Dept. of CSE  
Bangladesh University of  
Engineering and Technology  
(BUET)  
anindya\_iqbal@yahoo.com