Atish Kumar Dipongkor

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Research Interests

I have more than seven years of experience in software research and development. Currently, looking for an internship opportunity in Software Engineering and Machine Learning. My research is centered around the interpretability of Large Language Models for code.

Education

2022 - Present **Doctor of Philosophy (3rd Year, PhD Candidate)**, *University of Central Florida*, USA.
Major: Computer Science, *GPA 4.0 out of 4.0*

Dissertation Topic: Towards Interpreting the Behavior of Large Language Models on Software Engineering Tasks

2017 - 2018 **Master of Science in Software Engineering (MSSE)**, *University of Dhaka*, Bangladesh.
Major: Software Engineering

Thesis: Analysis and Improvement of Move Method Refactoring

2010 - 2013 **Bachelor of Science in Software Engineering (BSSE)**, *University of Dhaka*, Bangladesh.
Major: Software Engineering

List of Publications

2026 **Dipongkor, A. K.**, Moran, Kevin, Yao, Ziyu (2026). Reassessing Code Authorship Attribution in the Era of Language Models. **Submitted to ICSE 2026**.

2023 **Dipongkor, A. K.**, Moran, Kevin (2023). A Comparative Study of Transformer-based Neural Text Representation Techniques on Bug Triaging. **ASE**.

2023 **Dipongkor, A. K.**, Islam, M. S., Hussain, I., Yongchareon, S., & Mistry, S. (2023). On Fusing Artificial and Convolutional Neural Network Features for Automatic Bug Assignments. IEEE Access.

2022 Hira, S., **Dipongkor, A. K.**, Chowdhury, S., Akhond, M. R., & Galib, S. M. (2022). A Systematic Review of Sentiment Analysis from Bengali Text using NLP. American Journal of Agricultural Science, Engineering, and Technology, 6(3), 150-159.

2021 **Dipongkor, A. K.**, Islam, R., Shafiuzzaman, M., Nashiry, M. A., Galib, S. M., & Mazumder, K. M. (2021, August). AcPgChecker: Detection of Plagiarism among Academic and Scientific Writings. In 2021 Joint 10th ICIEV and icIVPR (pp. 1-6). IEEE.

2021 Kundu, M., Nashiry, M. A., **Dipongkor, A. K.**, Sumi, S. S., & Hossain, M. A. (2021). An optimized machine learning approach for predicting Parkinson's disease. Int. J. Mod. Educ. Comput. Sci.(IJMECS), 13(4), 68-74.

2021 **Dipongkor, A.K.**, Islam, M.S., Kayesh, H., Hossain, M.S., Anwar, A., Rahman, K.A. and Razzak, I., 2021, July. DAAB: Deep Authorship Attribution in Bengali. In 2021 International Joint Conference on Neural Networks (IJCNN) (pp. 1-9). IEEE.

2021 **Dipongkor, A. K.**, Nashiry, M. A., Abdullah, K. A., & Ritu, R. S. (2021). A Study on Bengali Stemming and Parts-of-Speech Tagging. In Emerging Technologies in Data Mining and Information Security (pp. 35-44). Springer, Singapore.

2020 **Dipongkor, A. K.**, Ahmed, I., Islam, R., Nahar, N., Satter, A., & Siddik, M. S. (2020). ABMMRS Eradicator: Improving Accuracy in Recommending Move Methods for Web-based MVC Projects and Libraries Using Method's External Dependencies. IJSEKE, 30(09), 1289-1307.

2020 Islam, R., Satter, A., **Dipongkor, A. K.**, Siddik, M. S., & Sakib, K. (2020). A Novel Approach for Converting N-Dimensional Dataset into Two Dimensions to Improve Accuracy in Software Defect Prediction. J. Softw., 15(6), 147-162.

2020 **Dipongkor, A. K.**, Islam, R., Nahar, N., Ahmed, I., Ganguly, K. K., Raian, S. M., & Satter, A. (2020). Reduction of Multiple Move Method Suggestions Using Total Call-Frequencies of Distinct Entities. International Journal of Information Engineering & Electronic Business, 12(4).

2018 **Dipongkor, A. K.**, Ahmed, I., & Nahar, N. (2018, June). Move Method Recommendation using Call Frequency of Methods and Attributes. In 2018 Joint 7th ICIEV and 2018 2nd icIVPR (pp. 76-81). IEEE.

Achievements and Awards

1. ASE SRC Champion (2024) – Code Authorship Attribution
2. Microsoft Most Valuable Professional Award 2016 & 2017 in Office Development Category.
3. Champion in National Hackathon 2014 in Water Safety Category.
4. Champion in BASIS Code Warriors Challenge 2014.
5. 1st Runner's up in Firefox App Challenge 2014 in Service Category.
6. Top Contributor in SharePoint StackExchange from Bangladesh.
7. 1st Runner's up COVID19 Detection in Blood Exams using Deep Learning
8. Honorable Mention in AI for Bangla Competition

Teaching Experience (3+ Years)

2023 - Present **Graduate Research Assistant**, *University of Central Florida*, USA.

2022 - 2023 **Graduate Teaching Assistant**, *George Mason University*, USA.

2020 - 2022 **Assistant Professor (On Study Leave)**, *Jashore University of Science and Technology (JUST)*, Bangladesh.

2018 - 2020 **Lecturer**, *Jashore University of Science and Technology (JUST)*, Bangladesh.

Courses Conducted

- Object-Oriented Programming
- Structured Programming
- Database Management System
- Applied Statistics and Probability
- Web Development
- System Analysis and Design

Industry Experience (5+ Years)

2017 - 2018 **Senior Software Engineer**, *Brain Station 23 Ltd*, Bangladesh.

2014 - 2016 **Software Engineer**, *Brain Station 23 Ltd*, Bangladesh.

2013 **Intern, Junior Software Engineer (Part Time)**, *Brain Station 23 Ltd*, Bangladesh.

List of Projects in Industry

2018   **JUST Online Admission**, *Bangladesh*.
Technologies: ASP.NET core 3.0, Entity framework 6 core, JavaScript

Description: An online admission portal for a public university. Using this portal, students can apply to this university and perform necessary tasks

2018   **Techstep NTP**, *Norway*.
Technologies: ASP.NET core 2.0, Angular 4.x, Entity framework 6 core

Description: A web portal that allows any company to keep track of mobile expenses, with automatic deduction of private usage from salaries and mobile tax reporting to the authorities.

2017   **TCS API**, *Norway*.
Technologies: ASP.NET MVC 5, Entity framework, NServiceBus, Azure App Insight

Description: A fault tolerant API that is used by resellers to manage cloud services on behalf of customers. Resellers can order and/or purchase Office 365 subscriptions using this API.

2015, 2016   **SharePoint Portal of Robi, Beximco & Berger**, *Bangladesh*.
Technologies: SharePoint 2010 - 2016, C#, Power-Shell

Description: An internal portal that automates several business processes using SharePoint. My responsibility was to develop workflows, web-parts, site branding and timer-jobs.

2014   **Citytouch & Incepta MSFA**, *Bangladesh*.
Technologies: WPF, XAML, WCF, C#

Description: Citytouch is the internet banking application of City Bank, and MSFA is the Mobile Sales Force Automation of pharmaceuticals company named Incepta.

Online Contributions

StackOverflow   I have been contributing to StackOverflow since my student life. On this site, my reputation is almost 10K and I earned 9 gold badges. Approximately 1.3M people viewed my posts. I mostly helped people by answering C# and Javascript related questions.

CodeProject   I published several technical articles on this website. Most of these articles are related to SharePoint and AngularJs. The average rating of my articles is 4.55 out of 5. Link to my articles.

Skills

Advanced   Python, C#, Microsoft SQL, ASP.NET Core, ASP.NET MVC, Entity Framework, WPF, Microservice, NServiceBus, SharePoint 2010-2016, Git, JavaScript, Azure Cloud

Intermediate   C++, Angular 2.0, Latex, TensorFlow, Docker, Source Code Mining, Machine Learning, Deep Learning, Natural Language Processing

Online Identities

- LinkedIn
- GitHub
- Personal Website
- StackOverflow
- Google Scholar

References

1   **Dr. Kevin Moran**, Assistant Professor, George Mason University, United States of America, Email: kpmoran@ucf.edu

2   **Dr. Wing Lam**, Assistant Professor, George Mason University, United States of America, Email: winglam@gmu.edu

3   **Dr. Ziyu Yao**, Assistant Professor, George Mason University, United States of America, Email: ziyuyao@gmu.edu