

## Md Tanvir Parvez



<b>Contact Information</b>	Dhaka, Bangladesh Cell: (+880) 1798955707 E-mail: tanvir.parvez.stat@gmail.com	GitHub: github.com/tanvirparvez04 LinkedIn: linkedin.com/in/tanvirparvez04
<b>Career Objective</b>	Statistics graduate with practical experience in machine learning, deep learning, NLP, dashboard development, and data analysis. Eager to apply data-driven solutions to real-world challenges in a results-orientated corporate environment.	
<b>Experience</b>	<b>Remote Research Assistant</b> Qatar Computing Research Institute, Doha, Qatar <ul style="list-style-type: none"><li>Co-developed MapEval, a benchmark for evaluating geo-spatial reasoning in foundation models</li><li>Led data collection and annotation across 28+ LLMs with map-based reasoning tasks</li><li>Collaborated with international teams, streamlining map-based evaluation workflows</li></ul>	[Mar 2024 – Mar 2025]
<b>Education</b>	<b>B.Sc. in Statistics</b> Islamic University (IU), Kushtia, Bangladesh CGPA: 3.62 on a scale of 4.00 (Last 4 semesters' CGPA: 3.77) Position: Ranked 5 <sup>th</sup> in a class of 50 students	[Jan 2019 – Jan 2025]
<b>Publications</b>	<ol style="list-style-type: none"><li>Mahir Labib Dihan, Md Tanvir Hassan*, <b>Md Tanvir Parvez*</b>, Md Hasebul Hasan, Md Almash Alam, Muhammad Aamir Cheema, Mohammed Eunus Ali, Md Rizwan Parvez. <i>MapEval: A Map-Based Evaluation of Geo-Spatial Reasoning in Foundation Models</i>. *: Equal Contribution. <a href="#">ICML 2025 Spotlight, Vancouver, Canada</a>. <b>Top 3 global AI conferences</b>.</li><li><b>Md Tanvir Parvez</b>, Mohammad H. Mobarok, K. S. M. Tozammel Hossain. <i>Predicting Rice Yields in Bangladesh using the Long Short-Term Memory Model</i>. Under review at <a href="#">AAEA&amp;WAEA 2025, USA</a>.</li></ol>	
<b>Research &amp; Projects</b>	<b>Crops Yield Prediction: Machine Learning Regression Analysis</b> <i>Supervisor:</i> Prof. Md. Mahabubur Rahman, Islamic University <ul style="list-style-type: none"><li>Created ML pipeline to predict crop yields using historical climate and agricultural data</li><li>Identified Random Forest as top-performing model through comparative analysis</li></ul> <b>A Time Series Approach to Short-Term Bitcoin Price Prediction</b> <i>Supervisor:</i> Prof. Md. Mahabubur Rahman, Islamic University <ul style="list-style-type: none"><li>Developed a Bitcoin price prediction model using ARIMA on historical daily data</li><li>Optimized and validated ARIMA models, with ARIMA(2,1,2) achieving the best performance (RMSE: 0.0389, MAE: 0.0247)</li><li>Highlighted ARIMA's limitations in volatile markets and proposed hybrid approaches for improvement</li></ul> <b>MapCoder: Multi-Agent Code Generation for Competitive Problem Solving</b> <i>Supervisor:</i> Prof. Mohammed Eunus Ali, Monash University, Australia <ul style="list-style-type: none"><li>Explored multi-agent code generation from natural language</li></ul>	
<b>Technical Skills</b>	<b>[Languages]</b> Python, R, SQL (MySQL), LaTeX <b>[ML/Data Tools]</b> Pandas, NumPy, Scikit-learn, Keras <b>[Development]</b> JupyterLab, Git, GitHub, Google Colab, VS Code <b>[Visualisation]</b> Power BI, Tableau, Matplotlib, Seaborn	
<b>Honors &amp; Awards</b>	<ul style="list-style-type: none"><li>University Merit Scholarship: Islamic University, Bangladesh (2021, 2022)</li><li>Founder, IU Stats for Blood (IUSB) (2023)</li><li>Champion, Intra-School Debate Competition (2015)</li><li>Runner-up, Upazila-level Debate Competition (2016)</li><li>Runner-up, Biology Olympiad (Biology-Plus) (2018)</li><li>Speaker, "Python programming language", Statistics Programming Club, IU (2024)</li></ul>	