

## Humayun Kayesh

### EDUCATION

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<b>Griffith University, Australia</b> PhD, Knowledge Discovery, NLP, Machine Learning	Mar 2022
<b>The University of Manchester, UK</b> MSc., Advanced Computer Science	Overall GPA: 78% (Distinction) Sep 2017
<b>University of Dhaka, Bangladesh</b> Bachelor, Information Technology	Overall GPA: 3.82/4.0 Jan 2013

### WORK EXPERIENCE

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<b>Research Assistant</b> <i>Healthcare Logic Pty Ltd.</i> Hospital Length of Stay (LoS) Prediction for Patients	Jun 2021 - Present Gold Coast, Australia
<ul style="list-style-type: none"><li>Designed and developed a machine learning model for hospital length of stay prediction</li><li>Improved the accuracy of the existing LoS prediction model by 20%</li><li>Developed a patient arrival rate prediction model for hospitals</li></ul>	
<b>AI Research Engineer</b> <i>DeepCognito Ltd.</i> Mining Patient Feedback	Sep 2018 - Apr 2019 Manchester, UK
<ul style="list-style-type: none"><li>Extracted topics and associate sentiments from patient feedback comments</li><li>Applied data loading, preprocessing, segmentation, and topic modeling on patient opinion data</li><li>Completed an ML model to detect sentiment in news articles</li></ul>	
<b>Software Engineer</b> <i>Jaxara IT Limited</i> Web Application Development and Maintenance	Dec 2015 - Aug 2016 Dhaka, Bangladesh
<ul style="list-style-type: none"><li>Transformed client requirements into requirement specification</li><li>Designed and setup system architecture by following standard practices</li><li>Applied tools such as Drupal, Jira, and Git for implementation and documentation</li></ul>	
<b>Software Engineer</b> <i>Four D Communications Ltd.</i> Developed a hybrid mobile app using the Ionic framework, Cordova, and AngularJS	Apr 2015 - Nov 2015 Dhaka, Bangladesh
<ul style="list-style-type: none"><li>Monitored and fixed issues in a customer relationship management (CRM)</li><li>Managed software development life cycle using Agile Scrum</li></ul>	
<b>Software Engineer</b> <i>Nascenia IT</i> Developed a betting-related PHP web application that requires API integration	Jun 2013 - Mar 2015 Dhaka, Bangladesh
<ul style="list-style-type: none"><li>Optimized the performance of a web application using caching</li><li>Integrated the social media login API to a web application</li></ul>	

### TECHNICAL SKILLS

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**Python** (data manipulation with *numpy* and *pandas*, data mining with *keras*, *scikit-learn*, data visualization with *matplotlib*), **TensorFlow** (Machine learning model architecture design, deep learning), **SQL** (Database design and integration), **MongoDB** (Storing and retrieving large datasets, schema validation), **R** (Text data mining with *dplyr*, *NLP*, *tm*), **C/C++** (desktop applications), **PHP** (web application development, REST API)

### AWARDS AND SCHOLARSHIPS

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- The best paper runner-up award at the ADMA 2019 conference
- Griffith University PhD Scholarship (2018 - 2022)
- Commonwealth Scholarship (2016-2017)