Bhushan Atote

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EDUCATION & QUALIFICATIONS

PhD in Computer Science   March 2022 – Present
University of Warwick, Coventry, The UK
Dissertation Topic: *Explainable AI for computer vision applications*

Master of Engineering in Computer Engineering 7.98/10   Aug 2014 – Nov 2016
Maharashtra Institute of Technology, SPPU, Pune, India
Thesis: *Optimization of signal behavior through Dynamic Traffic Control*

Bachelor of Engineering in Computer Engineering 68.56%   Aug 2009 – Aug 2013
RTMNU, Nagpur, India
Major: *Computer Science*, Minor: *Mathematics*

WORK & LEADERSHIP EXPERIENCE

Senior Graduate Teaching Assistant   Oct 2022 – Present
University of Warwick, Department of Computer Science
Courses: *CS342(Machine learning), CS355(Digital Forensics) and CS139(Web Development Technologies)*

- Evaluated student assignments, and projects, providing timely and constructive feedback
- Analysed and resolved student queries related to course material during contact hours and lab sessions
- Maintained accurate records of student attendance and participation
- Graded and provided feedback on coursework, ensuring consistency and fairness in evaluation process

Research Assistant   May 2022 – Sept 2022
University of Warwick, Department of Computer Science
Project title: *Monitoring and recognising drivers' activities for cars*

- Conducted literature review of state of the art models
- Managed in data preparation and analysis

Associate Consultant   April 2018 – Oct 2020
CapGemini Technology Services India Limited, India

Project title: *Sentiment Analysis on Travel Portal*

- Understanding business problems and analyzing data by using Statistical models to generate insights
- Developing system models, prediction algorithms, solutions to prescriptive analytics problems
- Developed NLP models for Topic Extraction, Sentiment Analysis
- Categorized comments(views) into positive and negative clusters from client site using Sentiment Analysis and Text Analytics
- Ensured model has low False Positive Rate and Text classification and sentiment analysis for unstructured data
- Created and designed reports which will use gathered metrics to infer and draw logical conclusions from past and future behavior
- Compared results with the RNN(LSTM) & Achieved accuracy of 0.957 on validation data

Project title: *Whales - Recognize Me!*

- Understanding business problems and prepare data for modeling
- Designing model architecture, training setup and formulating validation strategies
- Tuned a model with the aid of transfer learning using appropriate hyper-parameters
- Carried out data augmentation and experimentation to achieve validation accuracy above 96%
- Collaborated with deployment team to carried out final stage of project
- Communicated with client at frequent intervals to improve the model on updated data

Teaching Assistant   Aug 2014 – July 2016
Maharashtra Institute of Technology, SPPU, Pune, India

- Created and maintained lab manuals for Python and Machine Learning courses
- Delivered presentations on various Machine Learning topics to graduate students
- Mentored and resolved queries of graduate students during lab sessions
- Supervised a winning team of 5 undergraduates in Smart city project intercollegiate competition

ADDITIONAL EXPERIENCE

Exam Invigilator   April 2022 – Sept 2022
University of Warwick

- Monitored and supervised examinations to ensure adherence to university regulations
- Streamlined in setting up examination venue and distributing examination materials
- Handled unforeseen issues, such as student queries or technical difficulties, during the examination

SSLC, Secretary   April 2022 – Dec 2022
University of Warwick, Department of Computer Science

- Drafted Minutes of Meeting and it is circulated within SSLC members for approval, and uploading it on SSLC webpage
- Scheduling SSLC Meetings by considering availability of members of committee and communicating the same to all members via e-mail
- Supported GTA's by organizing PGR Feedback meetings with staff to address issues

SKILLS & INTERESTS

- **Languages:** Python, MATLAB, R, HTML/ CSS, JavaScript
- **Frameworks:** PyTorch, OpenCV, NLTK, Sklearn, NumPy, Pandas, Matplotlib
- **Tools and Technologies:** MySQL, LaTeX, Git, Linux

PUBLICATIONS

Refereed Conference Papers

- **Bhushan Atote**, Saniya Zahoor, Taranpreet Singh Saini, Mangesh Bedekar: *Optimization of Signal Behavior through Dynamic Traffic Control: Proposed Algorithm with Traffic Profiling*. **IEEE**, 2nd International Conference on Contemporary Computing and Informatics, Amity University, Noida, India; 12/2016, DOI:10.1109/IC3I.2016.7918033
- **Bhushan Atote**, Saniya Zahoor, Taranpreet Singh Saini, Mangesh Bedekar: *Time Alone is Not the Clear Indicator of Relevancy*. **IEEE**, 2nd International Conference on Contemporary Computing and Informatics, Amity University, Noida, India; 12/2016, DOI:10.1109/IC3I.2016.7918041
- **Bhushan Atote**, Mangesh Bedekar, Saniya Zahoor, Suja Panicker: *Proposed Used of Information Dispersal Algorithm in User Profiling*. **SPRINGER**, ICT4SD, International Conference on ICT for Sustainable Development, Goa, India; 07/2016, DOI:10.1007/978-981-10-3932-4_9
- **Bhushan Atote**, Mangesh Bedekar, Suja S. Panicker: *Centralized Approach towards Intelligent Traffic Signal Control*, **ACM**, ICTCS-2016, Second International Conference on ICT for Competitive Strategies, Udaipur, INDIA; 03/2016, DOI:10.1145/2905055.2905121
- **Bhushan Atote**, Saniya Zahoor, Taranpreet Singh Saini, Mangesh Bedekar: *Inferring Emotional State of a User by User Profiling*. 2nd International Conference on Contemporary Computing and Informatics, Amity University, Noida, India; 12/2016, DOI:10.1109/IC3I.2016.7918021
- **Bhushan Atote**, Mangesh Bedekar, Saniya Zahoor, Bharat Dangra: *Personalization in User Profiling: Privacy and Security Issues*. **IEEE**, International Conference on Internet of Things and Applications (IOTA-2016), Maharashtra Institute of Technology, Pune, India; 01/2016, DOI:10.1109/IOTA.2016.7562763

AWARDS

- **National Overseas Scholarship**   March 2022
  Funding provided for PhD by Government of India
- **Graduate Aptitude Test in Engineering(GATE) Qualified**   Feb 2014
  Secured financial support in the form of a monthly stipend from AICTE/MHRD (Indian government agencies) during Master of Engineering studies
- **Chess Championship**   Aug 2010
  Secured Runner-up position in Undergraduate Chess Championship