

Vyas Raina

Cambridge, United Kingdom

☎ (+44) 74114 60322

✉ vyasraina@hotmail.com

🌐 [rainavyas](#)

🌐 [Vyas Raina](#)

PhD Candidate, Deep Learning, University of Cambridge

Education

- 2020–2023 **University of Cambridge - PhD Deep Learning, Machine Intelligence Laboratory.**
Research Interests: Natural Language Processing, Adversarial Attacks, Seq-To-Seq Tasks, Uncertainty
- 2016–2020 **University of Cambridge - Information Engineering MEng.**
First Class Honours, top 2% in year of 300
- 2009–2016 **Wilson's School, London, UK.**
A Levels 4 A*s, GCSEs 12 A*s

Publications

- NAACL 2022 **Residue-Based Natural Language Adversarial Attack Detection, NAACL, 2022.**
- NeurIPS 2021 **Shifts: A Dataset of Real Distributional Shift Across Multiple Large-Scale Tasks, NeurIPS, Datasets and Benchmarks Track, 2021.**
- Interspeech 2020 **Universal Adversarial Attacks on Spoken Language Assessment Systems, Interspeech, 2020.**

Experience

- Oct 2021 - **Schonfeld, NLP RESEARCH ANALYST London, UK, .**
Now
 - Work part-time in the Quantitative Information Sciences research team
 - Develop Natural Language Processing (NLP) models to predict security price behaviour.
- Jun-Sep 2019 **Machine Intelligence Laboratory, DEEP LEARNING RESEARCH, Cambridge University, .**
 - Worked in the speech processing research group led by Professor Mark Gales.
 - Developed end-to-end deep learning models (in `pytorch`) to predict the *CEFR grade* of non-native speakers for an oral English examination (conducted by *ALTA*).
- Aug-Sep 2018 **Emotech, SOFTWARE INTERN London, UK, .**
 - Emotech is a start-up developing 'the world's first' emotional AI
 - Developed algorithms in `GoLang` to traverse paths in the robot's state-machine graphs.
- Jun-Aug 2018 **PwC, TECH RISK INTERN Birmingham, UK, .**
 - Prepared research material in emerging technologies: artificial intelligence and quantum computing.
 - Provided assurance to clients in the Higher Education sector for data centre migration to the cloud.
- Jun-Sep 2017 **BT, RESEARCH INTERN London, UK, .**
 - Trained a machine learning model (in `R`) to predict the SLA (Service Level Agreement) status (*pass/fail*) of incoming fault tickets based upon the natural language descriptions of the faults.

Skills

- Teaching Teach undergraduate modules: Statistical Signal Processing; Inference
- Python Pytorch, TensorFlow, numPy, matplotlib, Seaborn, SciPy, Pandas

Interests

- Activities Table Tennis, Badminton, Squash, Cricket, Chess, Running, Cycling, Football