Asim Adnan Eijaz

📞 +61 411802251
✉ asimadnaneijaz@hotmail.com
in /asimadnan
⌗ /asimadnan
🌐 /medium

🎓 Education

Macquarie University
Master of Research (Data Science)

Jan 2021 – Dec 2021
Sydney, NSW

Macquarie University
Masters in Data Science (Coursework)

Feb 2019 – Nov 2020
Sydney, NSW

GIKI University
Bachelors in Computer Science

2012 – 2016
KPK, Pakistan

⚗ Research & Publications

Research Project on Countermeasure Systems (CM) for Automatic Speaker Verification Systems (ASV)

> Built a CM systems that can detect speech synthesis and voice conversion based spoofing attacks on ASV systems
> Used Alexnet and Temporal Convolution Networks with cepstral speech features to outperform current complex hand crafted features based CM systems.
> Competed in ASVspoof 2021 Challenge got 15th rank globally in ASVspoof2021 countermeasure challenge for LA task.
> Submitted scientific paper at Interspeech 2021.

Using Machine Learning to study the effect of Medication Adherence in Opioid Use Disorder ⎋

> Used machine learning to investigate the association between patient's adherence to prescribed Medication Assisted Treatment (MAT) along with other risk factors in patients diagnosed with Opiate Use Disorder (OUD) and potential opioid overdose (OD) following the treatment.
> Funded by Foundational data science for US Medicaid research from the Digital Health Cooperative Research Centre.
> Paper Published in PLOS One journal.

◔ Experience

Wallace Design
Machine Learning Engineer

Feb 2022 - Present
Melbourne, VIC

> Maintain and update ML pipeline for all ML algorithms used in smart home system.
> Designed and Developed keyword spotting system for smart home system, with 2% EER.
> Designed and Developed text-independent end-to-end speaker recognition system.

BluPrintX
MarTech Consultant

Oct 2021 - Feb 2022
Sydney, NSW

> Designed and implemented Data Sync integration between industry specific CRMs and Marketing systems.
> Design, Build and implement micro-services to enhance marketing capabilities of Marketo.
> Design and build solutions based on customer requirement utilising marketing and sales tools.

Macquarie University
Tutor

Feb 2021 – November 2021
Sydney, NSW

> Worked as Tutor in Session 1 & Session 2, 2021 for Department of Computing
> Tutored Data Science, Big Data, Applications of Data Science, Web Development and Advanced Web Development

Digital Health CRC
Data Science Intern, Project ⎋

Aug 2020 – Dec 2020
Sydney, NSW

> Determining factors that influence substance abuse in patients with significant comorbidities

- HMS data set consisting of healthcare benefits claimed under the US Medicaid system, was used.
- Effects of Different Treatments being administered to patients with opioid addictions was analysed to deduce best treatment pathway.
- Machine Learning Model built to predict an overdose incident at different intervals and Prescription Adherence
- Analysis of other comorbidities associated with opioid disorder

Hoosh Marketing
Technology Consultant

June 2019 – November 2021
Sydney, NSW

- Executing Data Migrations between CRMs and Marketing Platforms.
- Assess, Design, and Build Marketing Automation.
- Built Automations to collect data into CRM for a Multi Channel E-commerce Client.
- Managing Offshore Developers to Build Internal Marketing Automation Products.

VebVey
Senior Software Engineer

July. 2017 – Dec. 2018
Lahore, Pakistan

- Architecture Design of a Payment Processing Application
- Integrating API's Like Stripe Connect, MangoPay, Docusign And Airwallex
- Managing entire life cycle of project from requirement, planning to deployment on cloud

Tkxel
Software Engineer

June. 2016 – June. 2017
Lahore, Pakistan

- Worked on large-scale websites leveraging Ruby on Rails-based platform via decoration, extensive use of views and models, and additional customer based customizations.
- Worked on designing, debugging and writing functionalities of the website using Ruby On Rails and related technologies.

⚙ Skills

Programming Languages Python, R, SQL, Keras, TensorFlow, PyTorch, Hadoop, Ruby, HTML, CSS, Javascript
Tools AWS, Git, Latex, Jupyter, Colab, Tableau, MongoDB, MySQL, SAS, IBM SPSS, Tensorflow, Pytorch