BENEDICT VITAI

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EDUCATION

University College London - *BSc Physics* | 09/2019 - Present
- **Predicted First** based on Year one
- **Key Modules:**
  Mathematical Methods (I, II & III) | Practical Physics and Computing | Data Analysis, Statistics and Numerical Methods | Quantum Physics | Statistical Mechanics
- **Key Skills:** Multivariate Calculus, Linear Algebra
- **Societies:** Active in Gospel Choir and AI Society

EXPERIENCE

MyTutor.co.uk - *Physics and Maths Tutor* | 10/2019 - Present
- 5-star rating with over 250 lessons on platform
- Nominated for *Best Confidence Builder 2020* award

CARP Las Vegas - *Community Outreach Intern* | 05/2019 - 07/2019

- Enhanced communication skills by liaising with over 100 non-profits in Las Vegas to spread awareness of activities aimed at self-development

STF Europe - *Gap Year Programme* | 10/2016 - 08/2017

- Developed long-term social projects in a team in Albania
- Self-funded activities by selling seasonal decorations in Switzerland, Austria and Germany. Pitched to ~50 groups/hr; personal daily record of 1200 CHF in sales in Zurich city centre.
- Taught myself basic French to pitch products in Romandy

PERSONAL INTERESTS AND PROJECTS

Singer-songwriter:
- Debut EP "Songs for a Friend" scheduled for summer 2021 release on all platforms. See Soundcloud for demo single
- Seasoned weekly busker in Central London prior to my studies - see Laceless Facebook

Volunteering:
- Worship Director for my church in Croydon since 2018
- Active in youth charities, such as HARP UK and Brightside

PROGRAMMING SKILLS

Experienced: Python, Pandas, Matplotlib, SQL, Git
Familiar: MATLAB, R, C++, Mathematica

KEY PROJECTS

TFL Oyster Journeys Analysis:
• Performed cleaning on a classmate's dataset and analysis of busiest stations and journey length with **Pandas** and **Matplotlib**

Predicting No-Shows in Hospitals:
• Implemented and compared multiple ML algorithms using **Scikit-Learn**, including Logit and Decision Trees, to predict hospital no-shows with 80% accuracy

Trigger Word Detection Pipeline:
• Built an end-to-end speech recognition pipeline using **Keras** and **numpy** to detect trigger words in home assistant devices and play a chime after each trigger word

CERTIFICATIONS

Machine Learning, Coursera.org
• Programmed algorithms in **MATLAB** such as multivariate linear regression, logit, SVMs and PCA from first principles; derived vectorised implementations to reduce runtime
• Built a movie recommender system based on collaborative filtering

Python for DS and ML Bootcamp, Udemy
- Completed all projects in **Python** using **Pandas**, **plotly** and **Tensorflow**