

Abhishekh Shankar

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Education

Master of Statistics and Operations Research

RMIT UNIVERSITY

Melbourne, Australia

Mar. 2017 - PRESENT

Bachelor of Science (Mechanical Systems)

UNIVERSITY OF MELBOURNE

Melbourne, Australia

Mar. 2017 - PRESENT

Projects

Time Series Analysis of Bitcoin Price Data

MATH1318: TIME SERIES ANALYSIS

Melbourne, Australia

Apr. 2018 - Jun. 2018

- Successfully fit an ARMA and GARCH model to Bitcoin daily closing price data and forecasted the following 10 days using R.
- Achieved a perfect score and bonus marks for both model and forecasting accuracy.

Bayesian Analysis of Melbourne Housing Prices

MATH2269: APPLIED BAYESIAN STATISTICS

Melbourne, Australia

Aug. 2018 - Sep. 2018

- Successfully fit a JAGS model to a Melbourne property price dataset using R.
- Forecasted sale prices on a number of properties.

Personal Website

PERSONAL PROJECT

Melbourne, Australia

Aug. 2018 - PRESENT

- Utilised HTML, CSS, JavaScript, and Bootstrap to create a portfolio website hosted through Github pages.

Fictional Rental Property Marketplace

COSC1295: ADVANCED PROGRAMMING

Melbourne, Australia

Aug. 2018 - PRESENT

- Utilised an MVC architectural pattern for the application.
- Created a GUI using JavaFX.
- Utilised HSQLDB as an embedded database for data management.

Design and Build of a CNC Machine

PERSONAL PROJECT

Melbourne, Australia

Apr. 2017 - PRESENT

- Designed a custom-made portable CNC machine using Solidworks.
- Designed stepper motor controller boards using Altium.
- Manufactured the gantry and frame using welding techniques.
- Gained expertise in project planning and delivery.

Employment

Melbourne Space Program (Volunteering)

FLIGHT VEHICLE TEAM LEAD

Melbourne, Victoria

Mar. 2016 - Mar. 2017

- Lead the Flight Vehicle team in the development of a 1U cube satellite.
- Designed and manufactured the chassis of the cube satellite.
- Participated in a team alongside the engineering manager to determine the validity of a high gain antenna on the first mission.
- Gained expertise in project management, setting and achieving realistic KPIs, and communicating to groups of ranging technical backgrounds.

Planex Sales

SHEET METAL WORKER

Hallam, Victoria

Nov. 2015 - Jan. 2018

- Produced and assembled storage units using panel bending, pressing machines, welding, and power tools.
- Designed and built rigs to test products to ensure they met industry standards.

Self-Employed

Melbourne, Australia

PRIVATE TUTOR

Feb. 2013 - Dec. 2015

- Assisted students in the successful completion of the VCE curriculum in Further Mathematics, Mathematical Methods, Physics, Chemistry, and Literature.

Aspendale Gardens Fish and Chips

Aspendale Gardens, Victoria

JUNIOR MANAGER

Sept. 2010 - Feb. 2015

- Assisted in the preparation, cooking, and service of orders alongside general maintenance of the store and customer service.

Extracurricular

University of Melbourne Endeavour Expo

Melbourne, Australia

MCEN30014: MECHANICAL DESIGN

Oct. 2015

- Designed and built an autonomous robot to participate in 2015 WARMAN Design and Build Competition.
- Utilised manufacturing skills including 3D printing and welding to create the robot alongside Arduinos for control.
- Showcased the robot to secondary school students at the Endeavour Expo at the University of Melbourne.

Skills

**Time Series Analysis, Bayesian Analysis, Multivariate Statistics, Optimisation and Modelling,
Java, C, R, MATLAB, Excel, SQL, SAS,**

References

A full list of references is available upon request.