

# Sunchuangyu Huang

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## Summary

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Proactive, project-oriented, and data-driven Master of Data Science candidate at University of Melbourne. With a natural inclination for positive leadership and a strong foundation in data analysis, leading teams to project targets. A friendly communication style fosters collaboration and encourages open dialogue, embracing teamwork in all endeavours. As a self-taught web developer, taking initiative to study and innovate from available sources. Eager to leverage analytical expertise in a data science or data engineering role, creating impactful solutions and driving positive outcomes

## Education

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### Master of Data Science

Feb 2023 - Present

#### The University of Melbourne

- Relevant course work: Statistical Modelling for Data Science, Multivariate Statistics for Data Science, Computational Statistical & Data Science, Cluster and Cloud Computing, Statistical Machine Learning, Advanced Database Systems, Data Science Project
- Took initiative to master cloud platform development in Cluster and Cloud Computing, achieving a remarkable 47/50. Implemented IT automation and containerization techniques for efficient data analysis
- Engineered Auto Regressive time series analysis tools with CSIRO, achieving 87/100. Constructed customised data analysis class to improve data analysis ETL and result delivery

### Bachelor of Science

Jun 2019 - Jul 2022

#### The University of Melbourne

- Relevant course work: Machine Learning, Linear Statistical Models, Modern Applied Statistics, Modern Applied Data Science
- Other course work: Business Negotiation, Positive Leadership Career
- Attained 49.5/50 in Modern Applied Data Science Industrial Capstone Project with CSL
- Acquired full-stack web development skills, leading to hands-on experience in Web Information Techniques and IT projects. Exploring online resources to further enhance skills and created a personal profile website

## Experience

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### Digital Content Library Builder - Internship

Nov 2023 - Present

HEX, Melbourne, VIC

- Redesigned and digitalized HEX's innovative learning content using Agile methodologies, enhancing user engagement and broadening company's educational reach
- Developed and curated a concise library of micro-courses tailored for adult education, ensuring each course adhered to Minimum Viable Product (MVP) standards for efficient learning
- Implemented an innovative e-commerce-style platform for course distribution, seamlessly integrating with major third-party education systems such as Go1 and Coursera, to broaden accessibility and user choice
- Facilitated cross-functional team collaborations, impacting over 5,000 students across diverse educational backgrounds

### Industrial Consultant / Data Scientist / Scrum Master

Feb 2023 - Nov 2023

Commonwealth Scientific and Industrial Research Organisation, Melbourne, VIC

- Executed a time series analysis utilizing the ARIMA model on a dataset of 5-year rolling window to forecast food log return prices, providing actionable insights for food security strategy formulation

- Leveraged Granger Causality statistics on a dataset of 10 global markets to pinpoint ENSO's impact on food security challenges, specifically in context of market log returns
- Broadened time series modelling framework to investigate 3 intricate segments among Population, Production, and Trade, offering a holistic view of food security considerations
- Managed and spearheaded the CSIRO project with a team of 4 members, leading to development of 5 AR algorithms tailored to meet client needs and adhered to agile principles, assured 100% on-time deliverables over a 6-month period
- Maintained over 50 documentation pieces and hosted or co-hosted 20+ meetings, establishing robust communication channels with 5 key clients, ensuring team was informed and regulated with project objectives

#### **Industrial Consultant / Data Analyst / Scrum Master**

**Jul 2022 - Nov 2022**

Commonwealth Serum Laboratories, Melbourne, VIC

- Coordinated a 5-member team, ensuring efficient communication and completion of 4 project deliverables aligned with supervisor expectations
- Designed an experiment evaluation chart using advanced visualization tools, such as Matplotlib and Plotly, to analyse historical HPLC data and identify out-of-control data points
- Implemented and studied unsupervised clustering algorithms, such as PCA, T-SNE, DBSCAN, UMAP & K-Mean, to segment and label distinct clusters within control datasets
- Demonstrated leadership by spearheading teams as both leader and scrum master. Facilitated team collaboration, championed efficient communication, and ensured projects adhered to supervisor guidelines through agile methodology

#### **Technical Skills**

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- Programming Languages: Python | R | Bash | SQL | Javascript | HTML | CSS | Git
- Data Science Skills: Jupyter Lab | R Studio | PySpark | Polars | SpreadSheet | Tableau | Web Scraping | Machine Learning | Natural Language Processing | Time Series Analysis
- Mathematical Skills: Statistical | Statistics Modelling | Probability | Operation Research & Optimisation
- Technical Skills: Microsoft Office Suite (Word, PowerPoint, and Excel)
- Full-Stack Development Skills: React.js | Node.js | Containerisation | IT Automation
- Language: English, Mandarin
- Soft Skills: Teamwork | Communication | Leadership | Project Management | Critical Thinking | Self-directed studying

#### **Licenses**

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- Google Data Analytics Certificate
- Agile with Atlassian Jira
- Google IT Automation with Python
- Data Analytics Virtual Experience Project - Quantum
- Inbound Marketing - HubSpot Academy
- Australian Full Driver License