Sunchuangyu Huang

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Summary

With a proactive and project-oriented approach, a Master of Data Science candidate from the University of Melbourne stands out in guiding teams towards project targets and fostering strong relationships. Exceptional communication skills promote collaboration and open dialogue, while a solid foundation in business analysis and resource management drives efficiency and productivity. A self-taught web developer, innovating and learning from available resources, is poised to leverage analytical expertise in data science or data engineering roles to create impactful solutions. Proficiency in data technologies is key to turning complex data into clear, compelling visuals support strategic decision-making.

Education

Master of Data Science   **Feb 2023 - Jun 2024**
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, constructed effective mastodon tweet web scraper with Messaging Passing Interface. Processing big data via Python and CouchDB MapReduce. Achieved 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
- Proficient in Python, R, MPI, and Web Scraping; adept with Statsmodels, Sklearn, Matplotlib, and Plotly; experienced in Jupyter, React, UI/UX Design, Git; Agile Project Management

Bachelor of Science (Data 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
- Proficient in Python, R, JavaScript, Web Scraping; Sklearn, Matplotlib, and Plotly; experienced in Jupyter, React, UI/UX Design, and Git; Waterfall and Agile Project Management

Experience

Digital Content Library Builder - Internship   **Nov 2023 - Present**
HEX, Melbourne, VIC

- Designed and digitalized HEX's micro-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+ food 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
- Visualised AR time series prediction results use Matplotlib and Plotly
- 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
- Visualised HPLC experiment results with modern visualisation library Matplotlib and Plotly
- 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

- 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: Statistics | Statistics Modelling | Bayesian Inference | Operation Research & Optimisation
- Technical Skills: Microsoft Office Suite (Word, PowerPoint, and Excel), Google Docs, Canva
- Full-Stack Development Skills: React.js | Nextj.sj | Node.js | Containerisation | IT Automation
- Soft Skills: Teamwork | Communication | Leadership | Project Management | Critical Thinking | Self-directed studying
- Language: Business Fluent in English, Native Speaker in Mandarin

Licenses

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

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