AAYUSHI VERMA iD

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Junior data scientist with strong portfolio of data analysis skills.
Vaccination Status: Fully vaccinated (2 Pfizer shots + 1 Booster shot).

TECHNICAL SKILLS

Languages: Python, SQL, R, Shell (Bash), HTML/CSS, Markdown, LaTeX, Matlab
Software: Git/Github, Anaconda, VS Code, MySQL, PostGres, PGAdmin
Other Skills: Bayesian statistics, time-series analysis, Fourier analysis, MCMC simulations, technical documentation

RELEVANT EXPERIENCE

Data Scientist   Mar. 2022 – Jun. 2022
SmartGreen Solar   *Providence, RI*
- Unifying multiple sources of data by creating a database. Will create dashboards displaying key metrics for sales and installations for solar panels.

Python Programmer   Apr. 2021 – current
CallCruncher, Inc.   *United States (Remote)*
- **Agent performance KPIs:** Developed Python scripts to process daily call detail records (CDR), per client basis for agents' performance index calculation. More duties include: generating statistics for incoming calls on a daily basis, computing agents' presence time for total calls in the day, reporting outliers outside 1-SD, ranking agents based on presence data and abandoned calls count, and other metrics.

Senior Thesis Research Project   Feb. 2021 – Nov. 2021
University of Canterbury   *Christchurch, NZ*
- Developed 3 pipeline scripts and 2 function repositories to ingest, transform, analyze and visualize image datasets (400GB+) from an astronomy observatory, using Python and Shell.
- Developed analytics, such as plots and analysis logs for pipeline scripts, additional feature includes API for web querying of database.
- Unit-tested code, open-source and publicly available on Github.
- These pipelines are currently being used by Mt. John Observatory for processing image datasets.

Laureate Internship   Jan. 2020 – Feb. 2020
Research School for Astronomy and Astrophysics, Australian National University   *Canberra, Australia*
- Developed multiple Python scripts for analyzing 3-dimensional data cubes of galaxies, including data cleaning, wrangling, analysis, and visualization.
- Performed operations like ASCII file manipulation, linear interpolation of data, polynomial curve fitting, and other mathematical transformations using Numpy.
- Contributed frequently to private group repository, wrote and maintained multiple function and class scripts in the repository.
- Publication for this project is currently in review in Astrophysical Journal (Mar. 2022).

EDUCATION

Bachelor of Science (Honours) in Astronomy, Minor in Mathematics   Feb. 2018 – Nov. 2021
University of Canterbury   *Christchurch, NZ*

Exchange Program – Fall Semester 2019   Sep. 2019 – Dec. 2019
Queen's University   *Kingston, Canada*

Work Experience

Internship Supervisor
Nov. 2021 - Feb. 2022

University of Canterbury Mt. John Observatory

- Supervisor for 3 undergraduate student interns at the Mt. John Observatory. In charge of training them on 2 telescopes, aiding them with their observations, mentoring them, and answering questions related to their astronomy research projects.

Teaching Assistant and Tutor
Feb. 2021 - Nov. 2021

University of Canterbury

- TA for approximately 30 first-year and 30 second-year Astronomy students. In charge of holding tutorial sessions to familiarize students with class content, helping and answering questions, marking assignments, helping the lecturer with class demonstrations and extra marking, and monitoring the online class forum to answer student questions.

Social Media Manager
Mar. 2020 – Nov. 2020

New Zealand Students' Space Association at University of Canterbury

- In charge of managing social media presence of association on Facebook, Instagram, Youtube, etc., promoting events, networking, and other related duties.

President and Co-Founder
Dec. 2018 – Mar. 2020

New Zealand Students' Space Association: Christchurch Branch

- In charge of managing 10-person team, coordinating meeting minutes, organizing weekly tasks for team, managing and running events for association, networking to make connections for association, and other management duties.

Certifications

The Complete SQL Bootcamp 2022: Go from Zero to Hero (Udemy - in progress)
Pandas (Kaggle - Jan. 2022)
SQL (SoloLearn - Jan. 2022)
Python For Data Science (SoloLearn - Dec. 2021)
Complete Data Science Training With Python For Data Analysis (Udemy - Dec. 2021)
Code/Astro Software Engineering Workshop for Astronomy (Caltech - Jun. 2021)

last updated: Mar. 2022