Pavan Singh

Data Science and Analytics

`Pandas` `NumPy` `TensorFlow` `MySQL` `NetLogo` `R` `Python` `HTML` `NLP` `Reinforcement Learning` `Data Sciene` `Computer Vision`

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Work Experience

Databases and Data Analytics Tutor
University of Cape Town
2021
Conducted workshops with students, teaching them the principles of databases and SQL language. Also worked with Tableau. Course codes: INF2006 and INF2007.

Golden Future Project Tutor
2020
Golden Future Project is university society aimed at providing resources and tutelage to high schools students from under resourced communities within Cape Town area

Bio

Hi, my name is Pavan and I am a masters candidate for MSc Advanced Analytics at the University of Cape Town in South Africa. I am proficient in multiple programming languages and have extensive experience with programming in a statistical analysis context.

My research interests lie with text mining and natural language processing in general, as well as ensemble machine learning methods and their applications on consumer and customer data. For more information see my website.

Projects

Airbnb - Clustering and SOMs
Look to uncover any hidden relationships from Airbnb property listings in Cape Town, using clustering.

Customer Churn Prediction
Determined which customers are at risk for leaving, by building 8 different classificaiton models.

Segmenting Customer Bases
Used clustering analysis to segment customer base to advicse production plans.

Education

University of Cape Town
Jan 2022 - Present
MSc Advanced Analytics
Masters GPA: 81%

University of Cape Town
Jan 2018 - Dec 2021
BBusSci Analytics
Statistics Honours GPA: 73%

St Charles Collegge
Jan 201 - Dec 2021
Cambridge IGCSE, AS and A-Levels
Academic Honours
Distinctions for Physics, Chemistry, Biology and Mathematics

Certifications

TensorFlow Developer Professional Certificate
2022
Programme covered building NLP systems, several neural network frameworks and handling real world data.

MySQL for Data Analytics
2021
Covers basic to advanced practices in MySQL.

Google Data Analytics Certificate
2022 - Present
Programme looks at practices and processes used in data analytics

Reinforcement Learning
2022
Programme looks at concept and how to apply AI tools to solve real-world problems.

Natural Language Processing
2022
Specialisation looks at concept and cutting-edge NLP techniques for application.

Soft Skills

Critical Thinking   Teaching

Organisation   Adaptability

Teamwork   Planning

Hobbies and Interests

When I am away from desk, I enjoy getting outside to play some sports.

I particularly enjoy playing padel (my most recent addiction), as well as football, cricket and tennis.

Besides sport, I enjoy watching movies and reading.

Skills and Languages