VINCENT VAN DER BERG

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SUMMARY

A meticulous professional with 7+ years of professional experience, seeking to transition into agricultural data science positions. With experience in R/Shiny and Dart/Flutter development, I am eager to contribute to innovative projects and make a positive impact. My diverse skill set spans 3+ domains, including soil and nutrient management, computational statistics and modelling, research and development, consultation, and education. I excel in teamwork, effective communication, and embracing constructive feedback. With a passion for continuous learning, I am ready to apply my knowledge and skills to drive data-driven solutions and support innovative growth of organizations.

SKILLS

• Statistical analysis	• R/Python/Kotlin/Dart	• Machine learning	• Deep learning
• Shiny development	• Flutter development	• Experimental design	• Chemistry
• Academic writing	• PostgreSQL	• Data visualisation	• Project management

EDUCATION

University of London, Online, Part-time   TBC
Postgraduate Diploma; Major in Data Science and Artificial Intelligence

University of Stellenbosch, Stellenbosch, South Africa   MAR 2017
Master of Science (Agriculture); Major in Soil Chemistry
  • Graduated top of cohort; Cum laude
  • Held a full-time position at agricultural laboratory

University of Stellenbosch, Stellenbosch, South Africa   DEC 2014
Bachelor of Science (Agriculture); Major in Soil Science and Viticulture

CERTIFICATIONS

Machine Learning Specialisation, Stanford University, Coursera   Mar 2022
Deep Learning Specialisation, DeepLearning.AI, Coursera   Nov 2021

EXPERIENCE

Agrivin Agricultural Data Science Consultancy, Bloemfontein, South Africa   Jul 2022 – Present
Freelance Data Science Consultant
  • Founded an independent freelance data science consultancy for small scale data science projects.
  • Conceptualised, redesigned, and presented enhancements to field trails and experimental designs.
  • Created a database using PostgreSQL to store experimental trial data that cut down paperwork by 70%.
  • Developed a data management web application using R Shiny to manage trials and gain actionable insights that increased productivity by 40%. Currently refactoring application to cross-platform application using Flutter.

Nguyễn Siêu Secondary School, Hà Nội, Viêt Nam   SEP 2017 – May 2022
Senior Chemistry Teacher
  • Designed chemistry curricula from scratch to teach the Cambridge IGCSE and CAIE A-level chemistry programs.
  • Taught 100+ students chemistry from basic to advanced level across grade 8 to 12.

- Collaborated between 4 cross-functional, multicultural departments to ensure optimal execution of course structure.
- Built a small and effective team of chemistry 3 teachers and trainees.
- Achieved consistent student performance of more than 75% of students achieving A-grade or above.

Elsenburg Agricultural College, Stellenbosch, South Africa   Jan 2017 – Jun 2017
Viticulture Lecturer
- Lectured 24 students viticulture by relying on effectively planned lectures and practical lessons that expanded students' skill sets in the field.
- Facilitated examinations that evaluated student performance in accordance with industry standards and needs.

Bemlab Agricultural Laboratory, Strand, South Africa   Jan 2015 – Mar 2017
Technical Specialist/Soil Scientist
- Analysed 7 lime requirement methods to identify most suitable and cost-effective method to determine lime requirement on a wide range of soils.
- Prioritised customer support regarding technical issues to cement customer loyalty and business trust.
- Reviewed lab analysis reports for fertiliser analysis and implemented custom analysis where required resulting in 30% increase in reporting rate.
- Devised a novel in-house analysis method to determine humic and fulvic acid content of products using VIS spectroscopy.

PUBLICATIONS

- White, V.G., Raath, P.J., Hardie, A.G., **van der Berg, V.**, Sutton, G.F. *Calculating soil titratable acidity from routine soil analyses of cultivated South African soils using various model structures*. South African Journal of Plant and Soil. DOI: 10.1080/02571862.2023.2212191

LANGUAGES

- English – Fluent (C2)
- Afrikaans – Fluent (C2)
- Vietnamese – Intermediate (B2)

REFERENCES

Dr. Ailsa Hardie, Senior Lecturer
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