

## Contact

[www.linkedin.com/in/nabeel-vandayar](https://www.linkedin.com/in/nabeel-vandayar) (LinkedIn)  
[nabeelvandayar.com](https://nabeelvandayar.com) (Personal)

## Top Skills

Data Engineering  
Machine Learning  
Data Analysis

## Languages

English (Full Professional)  
Chinese (Mandarin) (Elementary)

## Certifications

Sequence Models  
Neural Networks and Deep Learning  
Convolutional Neural Networks  
Data Engineering Nanodegree  
Cloud Native Development with Node.js, Docker, and Kubernetes

## Honors-Awards

University Entrance Scholarship  
Dean's Merit List: Bachelor of Medicine and Bachelor of Surgery Year 1  
Electronics Merit Award  
Software Development Merit Award  
Dean's List

# Nabeel Vandayar

Data and machine learning engineer | Biomedical and electrical engineer | Biomechatronic robotics enthusiast  
Johannesburg Area, South Africa

## Summary

I design, implement and manage data pipelines for real-time and scheduled bulk data processing using Python, AWS Redshift and EMR, Azure Databricks and CosmosDB, Apache Airflow, Spark and Kafka, using relational and NoSQL distributed databases. I also build and deploy machine learning models as scalable web services using Tensorflow, Docker, Kubernetes. My research "Hand gesture recognition on low cost hardware" has been published by the IEEE and the Pattern Recognition Association of South Africa. I have degrees in biomedical and electrical engineering and enjoy designing and building electromechanical systems using AI, robotics and the web.

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## Experience

### Altron

Data Engineer  
November 2018 - Present (1 year 5 months)  
South Africa

Data pipeline design | Data modeling | User analytics | Software development  
| Machine learning solutions | Algorithm development | Big data processing |  
Real time solutions

### MediSwitch, a Division of Altron TMT (Pty) Ltd

Data Scientist  
January 2017 - July 2018 (1 year 7 months)  
South Africa

Diabetes diagnosis prediction using neural networks | Customer data visualization | Medical data processing | Principal component analysis

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## Education

University of the Witwatersrand

Master of Science (MSc) in Engineering, Biomedical  
Engineering · (2019 - 2020)

University of the Witwatersrand

Bachelor of Science (BSc) in Engineering , Electrical and  
Information · (2017 - 2018)

University of the Witwatersrand

Bachelor of Engineering Science (BEng), Biomedical  
Engineering · (2014 - 2017)

University of the Witwatersrand

Bachelor of Medicine, Bachelor of Surgery - MBBCh  
(Deferred), Medicine · (2013 - 2013)

Jeppe High School for Boys

Matric · (2008 - 2012)