Prathik Prasad

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Education

University of Calgary   Expected June 2024
Bsc and Msc in Chemical Engineering (GPA: 3.5 / 4.00)   *Calgary, Alberta*

- **Relevant Coursework:** Data mining and machine learning, Advanced Statistics , Machine Learning for Petroleum Engineers

Indian Institute of Science   Expected September 2024
PG Level Certificate in Computational Data Science(GPA: 3.8/ 4.00)   *Bengaluru, Karnataka*

- **Relevant Coursework:** Fundamentals of Linear Algebra for Machine Learning, Advanced Statistics , Calculus for Machine Learning,Fundamentals of ML with Regression Models

Experience

University of Calgary   Septmeber 2022 – Present
Graduate Research Assistant   *Calgary, Alberta*

- Focused on Drilling optimisation by advanced signal processing techniques to accurately predcit and identify borehole dysfunctions in wells

- Assisted in conducting hammer drop drilling, and built a platform to analyse the data using python

- Assisted a PHD student in creating detailed visual representations, to interpret the techno-economic viability of geothermal plants in Alberta.

- Created a Data pipeline to analyse and visualise critical drilling data.

Beoflow   May 2021 – Present
Data Scientist Intern   *Calgary , Alberta*

- Crafted intuitive data visualization dashboards to streamline the evaluation of diverse performance parameters.

- Wrote a novel algorithm to calculate a Athletes fitness level without the need for lab testing

Projects

Drillbotics | *Tensorflow, Scikit learn, Sklearn, Django*

- Led the development of a autonomous drilling rig,was in-charge of designing the bottom hole assembly and fluid system.

- Designed a machine learning model to optimise the drilling operation,achieving a 10% improvement in the rate of penetration.

Credit risk modelling Logistic Regression | *Scikit learn, TensorFlow, PyTorch*

- Worked in a team to streamline data exploration, preprocessing, and visualization for a credit dataset, developed and evaluated a Logistic Regression model, and created an accurate credit scoring system to predict loan repayment likelihood.

Speech Emotion Classification using Ensemble Learning | *Scikit learn, TensorFlow, PyTorch*

- Developed an automated emotion classification model that analyzes audio files through ensemble learning techniques, effectively identifying emotions conveyed in speech

Technical Skills

Languages: Python, R , MATLAB
Technologies: React.js ,Django TensorFlow, PyTorch,Sklearn,Docker,MySQL,Git