

# Adam Prpick



Petroleum Engineer in Training (EIT) with APEGA

## About Me

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I'm a Petroleum Engineer-in-Training (EIT) with APEGA, with growing experience in machine learning, web development, and cloud deployment. I've developed and deployed multiple ML-powered applications using tools like Flask, TensorFlow, and SHAP, hosted on platforms such as Azure and Heroku. My work focuses on building practical, user-focused solutions from complex data.

## Skills

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- **Languages & Frameworks:** Python (Pandas, NumPy, Scikit-learn, TensorFlow/Keras, SHAP, Joblib, Flask), SQL, HTML, CSS, JavaScript, Lua, VBA
- **Machine Learning & AI:** Model training, interpretability (SHAP), neural networks, deployment pipelines
- **Web Development:** Flask web apps, Heroku deployment, interactive frontends
- **Cloud & DevOps:** Azure ML SDK, Docker, Azure Container Apps
- **Data Analytics & BI:** PostgreSQL, pgAdmin, [Power BI](#), DAX, end-to-end data pipelines (database design → ETL → visualization)
- **Visualization & Analysis:** Matplotlib, Seaborn

## Education

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B.Sc. Petroleum Systems Engineering

University of Regina | 2023

## Certifications

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- **Machine Learning Specialization**  
DeepLearning.AI (Andrew Ng) | Coursera | 2025
- **Google Machine Learning Crash Course**  
Google Developers | 2025

## Projects (AdamPrpick.com for working links)

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### Insurance Cost Prediction App

A Flask-based web app that predicts U.S. health insurance costs using a linear regression model trained with Azure Machine Learning ( $R^2 = 0.95$ ). Built with data from [Kaggle](#) and deployed on Heroku. [Live Demo](#) | [Source Code](#)

### Loan Approval Prediction App

A Flask-based app that predicts SBA loan outcomes based on user-provided business details. Trained using Azure Machine Learning with a neural network model with a [Kaggle](#) dataset. [Live Demo](#) | [Source Code](#)

### Capstone Design Project: Design and Optimization of a Greenhouse Gas Mitigation Approach - From Capture to Utilization in Northminster Field

A petroleum engineering capstone project completed as part of the Faculty of Engineering and Applied Science at the University of Regina, in collaboration with Abdulqadir Abdi. This project addressed Canada's initiative to mitigate greenhouse gas emissions by integrating CO<sub>2</sub> capture from industrial sources with Enhanced Oil Recovery (EOR) and sequestration in the depleted Northminster Field, Saskatchewan.

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## Contact

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