Adam Prpick

Petroleum Engineer in Training (EIT) with APEGA

About Me

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

- **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

B.Sc. Petroleum Systems Engineering

University of Regina | 2023

Certifications

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

Work Experience

- **Independent Contractor**
  Calgary, AB | 2024 - Present
  Residential renovations and construction projects
- **Shingler - Right to the Peak**
  Calgary, AB | 2021 - 2024

Projects (AdamPrpick.com for working links)

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_2 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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