

Adam Prpick

Machine Learning Engineer (APEGA EIT)

About Me

Machine Learning Engineer with hands-on experience building and deploying production ML applications using Python, Azure ML, and neural networks. Demonstrated ability to develop end-to-end AI solutions from model training to web deployment, with focus on model interpretability and real-world business impact. Strong foundation in data science, cloud computing, and full-stack development.

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

Projects & Experience (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](#)

Engineering Capstone: CO₂ Capture & Enhanced Oil Recovery

Designed greenhouse gas mitigation system integrating CO₂ capture with Enhanced Oil Recovery for depleted oil fields in Saskatchewan. Optimized injection schemes achieving 156,000+ tons of CO₂ sequestration and 52,000+ barrels of oil production with demonstrated economic viability.

Tools: AccuMap, CMG-GEM, CMOST, Reservoir Modeling | *University of Regina, 2023*

Education

B.Sc. Petroleum Systems Engineering

University of Regina | 2023

Courses

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

Contact

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