

Babak Eslamieh

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Machine Learning Practitioner with several deployed projects and practical experience.

Knowledge

Solid foundation and understanding of essential machine learning concepts, including:

- **Core machine learning tasks:** Regression, classification, clustering, dimensionality reduction
- **Core models:** Linear Regression, Logistic Regression, KNN, SVM, Decision Tree, Naive Bayes
- **Ensemble models:** Random Forests, Gradient Boosting, XGBoost
- **Neural network models:** Multi-Layered Perceptron (MLP), Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs)
- **Mathematics:** Linear Algebra, Calculus, Descriptive and Inferential Statistics, Probability theory and distributions

Skills

Hands-on experience in performing machine learning tasks using Python and ML stack, including:

- **Data Acquisition:** Reading, aggregating and filtering data (Pandas)
- **Exploratory Data analysis:** Visual and analytical examination of data for linearity, normality, class balance, outliers and summary statistics (Pandas, Matplotlib, Seaborn)
- **Data preprocessing:** Data imputing of missing values, data scaling (normalizing, standardizing) and transformations (log, square root, BoxCox) using Numpy, Pandas, Scipy and Scikit-Learn
- **Model training, evaluation and tuning** (Scikit-Learn)
- **Model deployment** (Docker, Streamlit, Django, FastApi)

Projects

Kick-started several data projects, with demo applications, Jupyter notebooks and full report, including:

JULY 2025, SOLO PROJECT

Using Machine Learning for Medical Health Assessment

JULY 2025, SOLO PROJECT

Using Machine Learning to Improve Quality of Service in Travel Industry

JULY 2025, SOLO PROJECT

Using Machine Learning for Sentiment Analysis

Certificates

August 2025, DeepLearning.AI

Mathematics for Machine Learning and Data Science

July 2025, IBM

IBM Machine Learning

April 2025, DeepLearning.AI and Stanford University

Machine Learning