Banafsheh Hassani

Bursting with data analytics and machine learning skills

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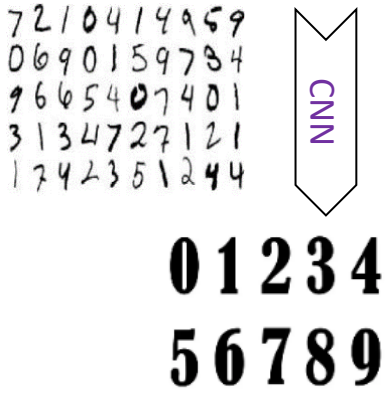
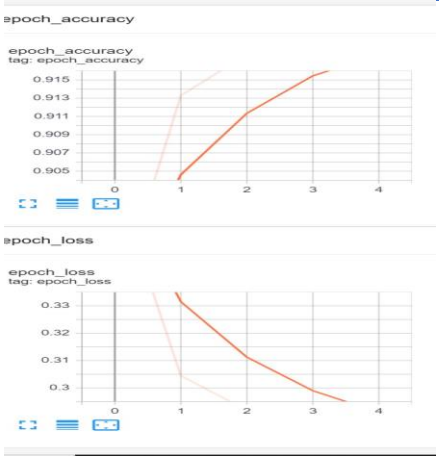
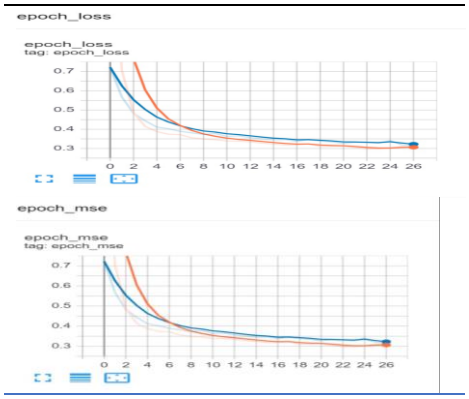
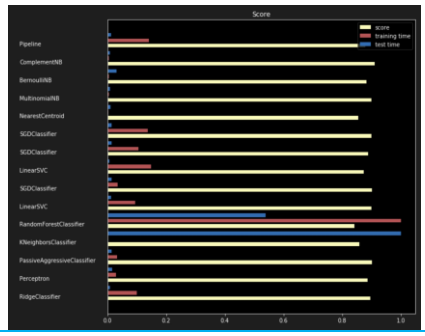
Vancouver,BC

Project	Tools & Methods	Description	Visualization
Digit Recognition - PyTorch These projects taught me how to use the ML library on the single driver node to fit a Neural Network onto the dataset.	• PyTorch library • Apache Spark driver single node	✓ Data processing ✓ Build a CNN model on MNIST dataset.	
Digit Recognition - Tensorflow	• TensorFlow library • Apache Spark driver single node	✓ Find the nearest point to recognize the digit from handwritten document.	
Deep learning: end-to-end by using TensorFlow Keras, Hyperopt and MLflow I learned how to use AI and 3 ML libraries to build and register a model with MLflow.	• TensorFlow Keras • Hyperopt • MLflow	✓ Data processing ✓ develop a deep learning model on Fetch_california_housing dataset to predict California house price in feature. ✓ Register the model in MLflow.	
Text documents classification by sparse features-plot I learned building model by ML library to document classification.	• Scikit-learn • Scipy.sparse matrix ○ storing features ○ demonstrates various classifiers.	✓ Build a model by ML library ▪ Classify document ✓ Using a bag-of-words approach ▪ Classify topic ✓ Plot	

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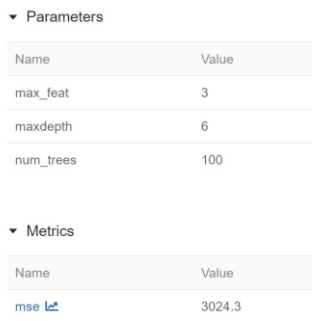
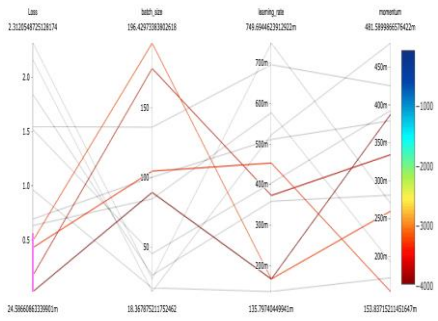
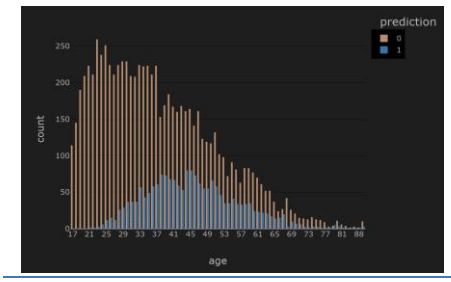
Pipeline for extract and evaluate text- Machine I always like to filter news for myself. 1st step is extract and evaluate news text.	• Scikit-learn	✓ Create model to extract and evaluate text on 20 newsgroups dataset. ▪ Automatically get 20 categories	
Track machine learning training runs Log runs to a notebook or workspace experiment This project taught me how to build a model on a simple dataset to Tracking training runs.	• Random Forest model • MLflow Tracking API	✓ Create a model on a simple dataset. ✓ Tracking API ▪ to log the model. ✓ Selected model parameters and metrics.	
ML Hyperopt & SparkTrials: Model This project taught me how to parallel training with ML libraries and Obtain the best.	• SparkTrials • Scale Hyperparameter tuning ○ Hyperopt	✓ Train models used ML libraries.	
Predict if an individual's income > $50,000 I learned binary problem solving by ML library in this project.	• MLlib • Hyperparameter tuning	Is an income > 50K on each age range? ✓ Using Apache Spark's ML library ✓ Investigates binary classification problem. ✓ Make predictions and evaluate.	
Job Analysis On this project I learned the best ways for preparing data professionally for modelling.	• Data processing ○ Problem statement ○ Data cleaning ○ Exploratory analysis ○ Feature engineering ○ Methodology	✓ Output: Get user expectation (by asking question from user) and recommend some sorted job category with salary range and information.	

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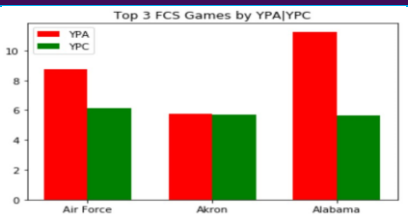
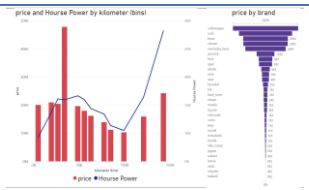
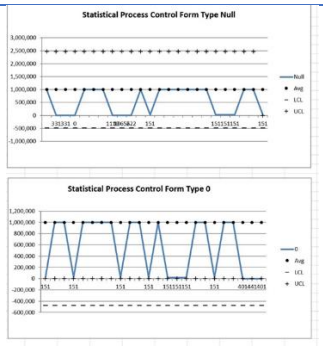
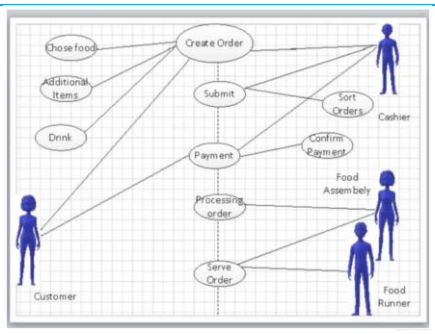
3 Top FCS Games from 'College Football Data API' Visualizing top 3 FCS game live from: api.collegefootballdata.com	• Data preprocess	Plays, **YPA** and **YPC** summarize by **function classified** by City. Data processing ✓ Load data from api ✓ Plays, YPA and YPC summarize by function. ✓ 3 Top FCS Games ✓ Plot data	
Playing **FIFA** made me think to have real match result for each 2 teams I chose for each game. I like to have other players data in the same game and my history to compare them with my last result. *That inspired me to work on football data*		✓ Heatmap ▪ Count of the matches played ✓ Table ▪ information by text ✓ Line chart ▪ Compare countries in term of number of matches they had played on world cups from 1930 to 2014.	
Introduction of FIFA world cup history FIFA world cup history.	• Related chart		
PowerBI - California houses I learned how to work on related charts and connect their result. Audience can get maximum information from the dashboard.	• Analysis houses price by house size and other factors.	Include some graphs on each dashboard for analysis California houses price. Filter data to get more insight.	
Greater Vancouver Business License I love data preparation, that's my magic to understand data faster and prepare that for perform exploratory analysis a nd modeling.	• Dataset anomalies: ○ *Blank cells* ○ *Duplicates* ○ *Abbreviations* • Data quality assessment *(DQA)* ○ *Initial assessment:* ○ *SME review, research, suggestions by DQ rules.*	Vancouver Business License dataset Includes sort of relevant column. Initial screen of the dataset revealed some anomalies, that has been extensively analyzed. The graph shown SPC.	
Food order Food ordering process.	• Analysis of food ordering process.	✓ Business Analysis ✓ Microsoft Visio ✓ ECS System Use-Cases ▪ Use-Case Name ▪ Actor ▪ Trigger ▪ Responses ✓ Check-out Equipment ▪ Actor Action ▪ System Response.	

LinkedIn

Github

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Violet BG I learned about layer, transparency (Opacity), and how to make art by play with them.	• Bitmap ○ Adobe photoshop	✓ A personal background for Facebook cover and other pictures background.	
Banafsh BG *I learned how to convert photo to shadow, play by adding filter.*	• Bitmap ○ Adobe photoshop	✓ A personal background with my name and my shadow	
Kindergarten banner *(Rushte Banafsheha)* *I always love design; I learn how to mix famous logo with my own work* ***(derivative)***.	• Bitmap ○ Adobe photoshop	✓ I used to work in a kindergarten and design their panel.	
Merry Christmas *I learn how to design tree with snow.*	• Bitmap ○ Adobe photoshop	✓ That was a Christmas cart I designed.	
Banafsheh I learn how to design name by text, shape and adding texture filter.	• Bitmap ○ Adobe photoshop	✓ Design my name on a leaf to engrave on a wood surface. ▪ (personal purpose)	
Binary cover This project taught me how to combine my favorite topics together. Binary ~ programming + Art.	• Bitmap ○ Adobe photoshop	▪ Personal purpose.