

KAYHAN ERYILMAZ

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EDUCATION

University of Illinois at
Urbana-Champaign

Graduated May 2020
| Bachelor of Science in
| Industrial Engineering

SKILLS

Programming

| Python
| Java

Data Management

| SQL and NoSQL
| InfluxDB
| Elasticsearch

Monitoring

| Kibana
| Grafana

Visualization

| Tableau
| D3

Deep Learning

| PyTorch
| Tensorflow
| OpenAI GPT2

Web Design

| HTML
| CSS
| Javascript

DevOps (Miscellaneous)

| Conda
| Basic Linux
| Docker
| Git

LANGUAGES

English: Fluent
Turkish: Fluent
Chinese: Conversational
Japanese: Beginner

EXPERIENCE

TurkNet Communication Services Inc.

Istanbul, Turkey

Data Scientist

Oct '20 - Present

- Developed Turkish NLP models for sentiment analysis, emotion recognition, and text classification using support tickets, to improve the interaction between customers and support staff and increase TurkNet's customer service
- Implemented modern monitoring stack using InfluxDB and Grafana in place of the legacy tools to track TurkNet's various time-series network data, which received acknowledgments from InfluxData
- Created various business intelligence and analytics reports including visualizations and relevant KPI's using Tableau
- Programmed a Python script, scheduled on VisualCron, that would run PostgreSQL queries to create and send the results as an HTML email through an SMTP server
- Continuing to work and develop on R&D for artificial intelligence projects

Data Scientist Intern

Jun '19 - Aug '19

- Contributed TurkNet's big data project by processing with PySpark and analyzing daily network traffic of over 100,000 customers to evaluate regional differences and other metrics between customers

ISE Senior Design: Spraying Systems Co.

Champaign, IL

Data Scientist

Aug '19 - Dec '19

- Designed and developed a product as a team for Spraying Systems Co. that would predict spray nozzle failures based on pressure data using an Isolation Forest model that had a success rate of approximately 91%
- Presented Spraying Systems Co. with an extensive report and presentation that included an economic analysis, a Gant chart, results from the development, and the potential profits and economic impact gained after using the finished product resulting in an estimated 6-year payback

UIUC Department of Computer Science

Champaign, IL

CS 101 Course Assistant

Aug'18 - May'19

- Worked with course staff to assist over 400 total students learning basic programming concepts in Python, receiving positive feedback from students on teaching style and the quality of explanations

PROJECTS

Reddit r/mechmarket Alert Bot

- Utilized the PRAW library to create a bot that would send notifications for keyword matches in posts from a specified subreddit and deployed it in a remote server to run continuously

Student Pass/Fail Prediction Naive Bayes Classifier

- Created a Naive-Bayes classifier to predict if a student would pass or fail a class and fine-tuned it until it surpassed the accuracy of the scikit-learn library's classifier

League of Legends Player Statistics Android App

- Developed an Android app that provided descriptive statistics a given player's performance in the popular game League of Legends by Riot Games