

Kayhan Eryilmaz

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EDUCATION

University of Illinois at Urbana-Champaign
Bachelor of Science in Industrial Engineering

Champaign, IL
May 2020

WORK 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 TurkNet's customer support staff
- Implemented modern monitoring stack using InfluxDB and Grafana in place of the legacy tools to track TurkNet's various time-series network data, later receiving acknowledgments from InfluxData
- Designed various business intelligence reports on Tableau using data visualizations and relevant KPI's
- Created an in-depth glossary, explaining various internal terminology and software used within TurkNet to improve the onboarding experience of newly hired data scientists
- Actively creating documentation on TurkNet's internal wiki regarding data science and business intelligence projects

Data Science Intern

Jun '19 – Aug '19

- Cooperated with Sr. data scientists with big data analysis 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 with a team Industrial and Systems Engineering students 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 results from the development, and the potential profits and economic impact gained resulting in an estimated 6-year payback
- Received distinction in the form of the Division 5 Bronze Award by James F. Lincoln Arc Welding Foundation

RESEARCH AND TEACHING EXPERIENCE

UIUC Department of Industrial and Enterprise Systems Engineering

Champaign, IL

Research Assistant

Sep '19 – May '20

- Analyzed and visualized data on pandas and plotly that was collected daily from elderly couples that to analyze the correlation between the relationship satisfaction and metrics related to physical health and kinesiology

UIUC Department of Computer Science

Champaign, IL

Research Assistant

Aug '18 – May '19

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

PROJECTS

- **DumbleBot** | Created a chatbot using Keras that imitated the fictional character Dumbledore
- **Reddit Alert Bot** | Created a bot to notify when a new post in a subreddit contained certain keywords
- **GitHub & Blog** | Regularly documented personal projects and experiences on GitHub and personal blog

SKILLS & INTERESTS

Programming Languages: Python, SQL, Java, HTML, JavaScript, R

Tools: TensorFlow, Keras, scikit-learn, Flask, pandas, Numpy, PySpark, Elasticsearch, Google Cloud Platform, Docker, Heroku, Git, Miniconda, Tableau, D3, Plotly, matplotlib, Grafana, Kibana

Languages: English (Fluent), Turkish (Fluent), Mandarin (Conversational), Japanese (Beginner)

AWARDS & CERTIFICATIONS

JFLF Engineering Student Design Competition 2020, Division 5: National Bronze Award

LEAN Green Belt Certification by Institute of Industrial and Systems Engineers