PLAMEN PASLIEV

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Portfolio website: https://plamenpasliev.github.io/

SUMMARY

Data Science MSc graduate with 2+ years of experience in project work. Team player with the desire to solve business problems using machine learning and data analytics tools. Worked on all development levels from problem formulation to pushing and maintaining models in production.

WORK EXPERIENCE

Wayfair GmbH   Jun 2019 - Present
Data Scientist   *Berlin, Germany*

- Fraud Detection
  - Developed a Machine Learning algorithm detecting falsely declined, non-fraudulent orders.
- Predicting Customer Problems
  - Personalized the Help and Contact page of Wayfair.
  - Developed different machine learning solutions such as GBDT (XGBoost and CatBoost) and a neural network (Keras with TensorFlow) with top-3 accuracy of 90%.
  - Updated and maintained models deployed in production (Airflow).
  - Worked on collecting and processing data, data exploration, modelling, testing and pushing to production.

Technology stack: Python, Google Cloud Platform (GCP) stack, Git, Airflow, Docker

Neurocat GmbH   Apr 2019 - Jun 2019
Artificial Intelligence Intern   *Berlin, Germany*

- Integrated and tested popular explanation methods using Python and TensorFlow.
- Researched explanation methods and proposed a systematic approach to categorize them.

Technology stack: Python (Numpy, Pandas, TensorFlow, PyTest)

Technical University of Eindhoven   Aug 2016 - Feb 2017
Student mentor   *Eindhoven, Netherlands*

- Organized individual and group weekly meetings with twenty-four first-year students.
- Taught effective study skills and helped in practical matters.

EDUCATION

EIT Digital Master School   Sep 2017 - Feb 2020
MSc in Data Science   *Berlin, Germany / Milan, Italy*

· Double-degree master program combining technical education with innovation and entrepreneurship.
· Obtained two MSc degrees, awarded from Technische Universitat Berlin and Politecnico di Milano, as well as the EIT certificate.
· Awarded a two-year, merit-based, scholarship including a tuition fee weaver and monthly allowances.

Technical University of Eindhoven   September 2014 - July 2017
BSc in Computer Science and Software Engineering   *Eindhoven, Netherlands*

· Acquired knowledge about theory, algorithms, software development, system architecture, data structures and information systems.
· Took part in many software engineering group projects: from app development in Java to web development with HTML, JavaScript, Angular, NodeJS, Firebase NoSQL. Practiced agile development and Scrum.

PROJECTS AND PUBLICATIONS

Explainable Fraud Detection   Dec 7, 2020
Blogpost   *Wayfair Tech Blog*
- Contributed to the Wayfair Tech Blog with an article about Explanation Methods applied to Fraud Detection. Created a Google Colaboratory notebook with illustrating examples.

Fairwashing Explanations with Off-Manifold Detergent   Jul 1, 2020
International Conference on Machine Learning (ICML)
- This paper is a continuation of my master's thesis work. We show how ML explanations can be critically manipulated and propose a way to make them more robust.

Training Neural Networks with Manipulated Explanations   Apr 2019 - Feb 2020
Master's thesis   *Technische Universitat Berlin, Germany*
- Used PyTorch to train image recognition models with over 92% accuracy.
- Extended current research and showed how popular explanation methods can be arbitrarily manipulated.

Neural Style Transfer for Furniture   Dec 2019
Wayfair hackathon   *Berlin, Germany*
- Used Keras and TensorFlow to generate artificial pieces of furniture fitting a desired home style.
- Beat hundreds of engineers and reached the hackathon finals.

Data Science and Machine Learning Bootcamp   Mar 2019
Udemy Course
- Learned how to use popular popular ML and data manipulation tools. Applied skills to multiple Capstone projects.

Machine Learning for Financial Data   Jul 2018-Aug 2018
Summer School   *Budapest, Hungary*
- Worked on business assignments for innovative use of machine learning in cooperation with companies and start-ups from the Budapest ecosystem.
- Awarded second place out of eight groups.

Recommender System 2017 Challenge   Sep 2017 - Feb 2018
Recommender Systems course   *Politecnico di Milano, Italy*
- Used data from over 1M interactions (100K tracks belonging to 57K playlists) to recommend songs to users.
- Created an ensemble of machine learning solutions such as Collaborative filtering, Content-based filtering and Sparse Linear Method (SLIM) which outperformed individual methods.

SKILLS

Python stack	NumPy, Pandas, SciPy, Jupyter Notebooks
Programming languages	Python, Java, Javascript
Databases	BigQuery, MSSQL, PostgreSQL, Firebase NoSQL
Machine Learning	Scikit-learn
Deep Learning	PyTorch, Keras, TensorFlow
Data Analysis and Data Visualization	Matplotlib, Seaborn
Data Cleaning and Data Manipulation	NumPy, Pandas, SciPy, sklearn
Version Control	Git
Cloud Computing	Google Cloud Platform (GCP)
Workflow management	Apache Airflow
Interpersonal Skills	Presentation, Teamwork, Communication, Organization
Agile methodologies	Scrum, Kanban
Mathematics	Probability, Statistics, Linear Algebra
Languages	English (Full Professional Proficiency), Bulgarian (Native)

HOBBIES

Reading, sports, meditation, mindfulness, self-help, travelling, video games. Active gym member for the past decade. Interested in the science behind nutrition and different training patterns.