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 models to production.

WORK EXPERIENCE

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

- Fraud Detection
  - Performed extensive exploratory data analysis (EDA) to identify important features which correlate to fraudulent orders.
  - Developed an MVP fraud detection model (CatBoost) with over 86% F1 score.
- 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.
- Resolution Optimization for Damaged/Defective Products
  - Used Python libraries such as matplotlib and seaborn to visualize the relationship between resolutions and customer engagement.

Technology stack: Python, MSSQL, Vertica, Hive, 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

Training Neural Networks with Manipulated Explanations Technische Universitat Berlin
Master's thesis *Apr 2019 - Feb 2020*

- Used PyTorch to train image recognition models with over 92% accuracy.
- Extended current research and showed how popular explanation methods can be manipulated critically.

Visualizing Immobilienscout listings Jan 2020

- Scraped over 3000 active listings from immobilienscout24 to improve visualization.
- Created an interactive web page: https://plamenpasliev.github.io/pages/housing.html

Neural Style Transfer for Furniture (Wayfair hackathon) Dec 2019

- Used Keras and TensorFlow to generate artificial pieces of furniture fitting a desired home style.
- Beat hundreds of engineers and reached the final eight.

Data Science and Machine Learning Bootcamp Mar 2019

- Certificate of completion: https://www.udemy.com/certificate/UC-5OH1TL0O/

Machine Learning for Financial Data Budapest, Hungary
Summer School *Jul 2018-Aug 2018*

- Business idea for predicting the influx of customers of SMEs via machine learning.
- Awarded second place out of eight groups.

Recommender System 2017 Challenge Politecnico di Milano
Recommender Systems course *Sep 2017 - Feb 2018*

- 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	MSSQL, Vertica, Hive, 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
Workflow management	Apache Airflow
Interpersonal Skills	Presentation, Teamwork, Communication, Organization
Agile methodologies	Scrum
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.