MATEUSZ BECLAWSKI

DATA SCIENTIST

07395 475510

mbeclawski@gmail.com

Newcastle Upon Tyne

https://www.linkedin.com/in/mateuszbeclawski/

https://github.com/Leviathan-777

https://leviathan-777.github.io

PROFILE

Computer Science graduate with 1 year of experience as a software engineer. Throughout the university course, developed a solid foundation in programming languages such as Python and Java, and gained knowledge about machine learning and AI, data manipulation and analysis, data structures and algorithms, software engineering, and database management. Completed several individual and group projects where demonstrated the ability to work collaboratively and effectively communicate ideas. Developed an understanding of good coding practices and learned about methodologies such as Agile and Scrum. Gained expertise in Java and UNIX systems during a software engineering internship at IBM. My main interest is Data Science and the development of Machine Learning models that can solve real-world issues. Excited to use my technical skills and knowledge to create innovative solutions in the world of technology.

EDUCATION

Computer Science BSc

Northumbria University | 09/2019 – 06/2023 | Newcastle Upon Tyne, UK

Awarded with BSc First Class Honours.

- Relevant coursework: AI and Robotics, Machine Learning and Computer Vision, Intelligent Systems, Software Engineering, Human-Computer Interaction.
- Dissertation: Tumour status prediction in colon cancer with transfer learning using pathological tissue images.

WORK EXPERIENCE

Software Engineering Intern

IBM Labs | 06/2021 – 06/2022 | Hursley, UK

- Provided technical support to clients via phone, email, and chat, resolving a large number of issues related to Java-based applications, systems, and tools.
- Collaborated with cross-functional teams, including developers and QA engineers, to identify and troubleshoot complex issues, ensuring timely resolution of customer complaints.
- Utilized diagnostic tools such as JVM Diagnostic Tools to debug Java applications, effectively resolving technical problems.
- Developed shell scripts and Java applications to automate parts of the debugging process, contributing to the improvement of the overall debugging efficiency.
- Worked with specialists on root cause analysis and provided recommendations for process improvements, enhancing the effectiveness of the support workflow.
- Contributed to the development and maintenance of technical documentation, including troubleshooting guides and knowledge base articles, optimizing the efficiency of support teams.
- Ensured client satisfaction by delivering excellent customer service and promptly resolving support cases in a professional manner.
- Participated in an IBM voluntary project, contributing to the development of the frontend and backend of the web application. Used technologies such as Python with Django framework, Docker, MySQL, HTML/CSS and JavaScript.

PROJECTS

Tumour status prediction in colon cancer with transfer learning using pathological tissue images

- Python/TensorFlow/Keras/Pandas/Matplotlib/SciKit-learn/Numpy
- The project consists of nine machine learning models. Every model is built from a combination of a transfer learning model used for the feature extraction of histological images and an ML model used for the classification of tumour status based on the extracted features. Transfer learning models used in the study: Resnet50, InceptionV3, Inception-ResnetV2. Machine learning models used in the study: RandomForest, SVM, MLP. The models were tested on previously unseen data. Of all models, the model which performed the best was the combination of Resnet50 as a feature extractor and Random Forest as a classifier with an AUCROC score equal to 0.71.
- https://github.com/Leviathan-777/MSI-MSS-tumor-prediction

Smart Temperature Control System

- Python/Numpy/Pandas/Tkinter/Matplotlib
- The prototype of a temperature control system. The rule-based system takes a number of parameters such as the temperature of the rooms, and the temperature outside to decide if switch on/off heating in the various rooms of the house or remain in the same state. It updates and shows the current temperatures of the rooms. It can gather and plot data about the changes in the temperatures in different rooms and the actions of the heating system.
- https://github.com/Leviathan-777/Temperature-Control-System

Boiler Service Website

- HTML/CSS/Node.JS/JavaScript/Angular/SQL
- The group project which was developed with four other students and involved creating a website for a local boiler service company. The website provides a modern GUI with functionalities such as a digital diary, an online booking system, and an email notification system.
- https://github.com/Leviathan-777/Temperature-Control-System

LANGUAGES

Polish	Native
English	Fluent
German	Intermediate

SKILLS

Python	Advanced	**NumPy**	Intermediate
Java	Advanced	**Agile**	Intermediate
Scikit-learn	Intermediate	**Docker**	Intermediate
Tensorflow	Intermediate	**Git**	Intermediate
Matplotlib	Intermediate	**HTML/CSS**	Competent
Jupyter Notebook	Intermediate	**JavaScript**	Competent
SQL	Intermediate	**Django**	Competent