NATALJA TOMASEVICA

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• Languages: English, Russian, Latvian • EU Settlement Scheme (pre-settled status) •

PROFESSIONAL SUMMARY

Aspiring data analyst with a strong foundation in finding data-driven solutions, machine learning, and full-stack development. Proficient in extracting actionable insights from complex datasets and building predictive models using Python, SQL, and machine learning frameworks like TensorFlow and Scikit-learn. Passionate about leveraging my technical skills and analytical mindset to drive innovation in data projects that make a meaningful impact. Eager to contribute to a dynamic team and solve challenging problems.

EDUCATION

BSc (Hons) Physics with Astrophysics, Northumbria University, Newcastle upon Tyne, the UK (09/2020-07/2023)
• Developed strong analytical and computational skills through courses in computational physics, astrophysics, and quantum mechanics
• Strengthened abilities in mathematics and statistics, which form the foundation for data science methodologies, through courses in advanced mathematics and dynamical systems
• Applied data analysis techniques to understand physical phenomena and solve complex problems
• Acquired experience in research, technical report writing, and data visualisation, vital for presenting complex data effectively
• Enhanced communication, problem-solving, and adaptability skills through group projects, presentations, and managing scientific research projects under tight deadlines

PROFESSIONAL CERTIFICATES

Meta Data Analyst (10/2024)
• Applied data analysis techniques and built predictive models using Python, SQL, Tableau, Power BI, and spreadsheets
Google Advanced Data Analytics (05/2024)
• Conducted exploratory data analysis on large datasets and built machine learning models using Python and SQL
Meta Back-End Developer (05/2024)
• Developed web applications using Django and Python, and managed databases using SQL

WORK EXPERIENCE (PROJECTS)

Fitness Records Analysis and Prediction with Machine Learning
• Conducted exploratory data analysis and visualised results using Pandas, NumPy, Seaborn, and Matplotlib
• Developed a machine learning model to predict fitness metrics based on fitness data, achieving an R-squared value of 0.82 with Linear Regression using Python and Scikit-learn
Classification of Astronomical Objects with Machine Learning
• Utilised Python libraries (Pandas, NumPy, Matplotlib, Seaborn) to perform exploratory data analysis
• Built a machine learning model to classify astronomical objects (stars, galaxies, or quasars) using a dataset of 10,000 observations
• Implemented classification algorithms (Decision Tree, Logistic Regression, K-Nearest Neighbours) to predict object classes
• Achieved 99% accuracy with the Decision Tree model
User Churn Prediction with Machine Learning
• Conducted exploratory data analysis and feature engineering using Pandas, Matplotlib, and Seaborn
• Developed a machine learning model to predict user churn for a mobile application using a dataset of 15,000 records
• Achieved 82.4% accuracy with a Logistic Regression model and a recall score of 0.179 using XGBoost
Interactive Calculator Application
• Created a fully functional calculator web application using Django for back-end development and HTML, CSS, JavaScript for the front-end
• Implemented real-time calculation using JavaScript, providing results without page reload
• Styled the interface with CSS for an interactive user experience, including hover effects and button animations
Books and Authors Management System
• Developed a web application using Django and Python to allow users to add, edit, and delete book and author records
• Implemented CRUD operations with data stored in a database
• Used Django Forms for input validation, ensuring data integrity and an intuitive user interface
• Designed dynamic web pages using Django Template Language, HTML, and CSS

TECHNICAL SKILLS

• **Programming Languages:** Python, JavaScript, CSS, HTML, SQL
• **Data Manipulation and Analysis Libraries:** Pandas, NumPy, SciPy
• **Data Visualisation:** Matplotlib, Seaborn, Power BI, Tableau, Excel
• **Machine Learning Libraries:** Scikit-learn, XGBoost, TensorFlow
• **Development Frameworks:** Django, Bootstrap
• **Development Tools:** Jupyter Notebook, Visual Studio Code, Git
• **Data Science Skills:** exploratory data analysis, database management, feature engineering
• **Analytical Skills:** Predictive Modelling, Probability and Statistics, Hypothesis Testing
• **Machine Learning Techniques:** Linear Regression, Logistic Regression, Classification, Decision Trees, Random Forest, XGBoost