

NATALJA TOMASEVICA

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

PROFESSIONAL SUMMARY

Aspiring data analyst with expertise in data analytics, machine learning, and back-end development. Skilled in building predictive models and data-driven solutions using Python, SQL, and machine learning frameworks. Seeking to apply my knowledge and technical skills to innovative projects.

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)

Classification of Astronomical Objects with Machine Learning

- Built a machine learning model to classify astronomical objects (stars, galaxies, or quasars) using a dataset of 10,000 observations
- Utilised Python libraries (Pandas, NumPy, Matplotlib, Seaborn) to perform Exploratory Data Analysis
- 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

- Developed a machine learning model to predict user churn for a mobile application using a dataset of 15,000 records
- Conducted Exploratory Data Analysis and feature engineering using Pandas, Matplotlib, and Seaborn
- 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 MySQL 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
- **Analytical Skills:** Predictive Modelling, Probability and Statistics, Hypothesis Testing
- **Machine Learning Techniques:** Linear Regression, Logistic Regression, Classification, Decision Trees, Random Forest, XGBoost