

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)

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 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