# Alena Chigvintseva

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## EDUCATION

BSBI, Germany (Teaching) | UCA, UK (Awarding) **Berlin, Germany**
*Bachelor of Science (Hons) in Computer Science and Digitization* Expected February, 2026

- **GPA:** 76.4 / 100 (UK), equivalent to 1.3 / 4.0 (German Grading System)
- **Relevant Coursework:** Database Design and Implementation, Algorithms and Problem Solving using Python, Statistics, Machine Learning and Data Analysis, CS for Digital Engineering (C++)

## TECHNICAL SKILLS

**Programming & Data Analysis:** Python (pandas, sci-kit learn, numpy), C++, MySQL, Tableau, SQL
**Web Development**: HTML5, CSS3, JavaScript
**Tools:** GIT, GitHub, MySQL Workbench, UML

## RELEVANT PROJECTS

### SQL and Database Management Fundamentals

*Technologies: MySQL, SQL, Database Management Systems*

- Built and queried databases using MySQL Workbench, focusing on data retrieval, filtering, and relational data structuring in real-world applications.

***Result**:* Enhanced ability to design and query relational databases, directly applicable to Siemens' SQL Server and SSDS tasks.

### Advanced Database Management Systems (DBMS) & Schema Design

*Technologies: MySQL, SQL, Database Design, UML*

- Applied advanced SQL techniques and database design principles, including normalization and indexing; created a library database schema with UML.

***Result**:* Achieved practical experience in DBMS and database design, including hands-on SQL application, essential for supporting data operations in tech-driven environments.

### NYC Property Value Prediction

*Technologies: Python (pandas, numpy, scikit-learn), SQL, Tableau, Lasso Regression*

- Developed a predictive model using Lasso Regression to analyze real estate data, identifying critical factors affecting property prices.

***Result**:* Improved prediction reliability by identifying critical price-determining variables, directly applicable to Siemens' SQL Server Data Services (SSDS) tasks.

### Wine Quality Classification

*Technologies: Python (pandas, numpy, scikit-learn), Random Forest, SVM*

- Implemented Random Forest and SVM models to classify wine quality based on chemical properties, applying data preprocessing and hyperparameter tuning.

***Result**:* Reached high classification accuracy, demonstrating expertise in machine learning and model optimization, which aligns with Siemens' focus on technical problem-solving in data analytics.

### Salary Prediction Model

*Technologies: Python, Tableau, Linear & Polynominal Regression*

- Built regression models to predict salary trends based on demographics, visualizing insights in Tableau.

***Result**:* Developed a model providing actionable insights for salary trends, showcasing data analysis capabilities relevant to Siemens' SQL and data processing solutions.

## ADDITIONAL SKILLS & INTERESTS

**Languages:** Fluent in English, Russian; Conversational Proficiency in German
**Soft Skills:** Problem-Solving, Adaptability, Fast-Learning, Team Collaboration, Analytical Thinking
**Interests & Hobbies:** Machine Learning applications, Technologies (AI) in art, Tabletop Gaming