

Lola Beatrice Braut

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Professional Profile

Digital Technologies student completing a BTEC Level 5 HND in December 2026, with practical experience applying Python, artificial intelligence, and data analysis across academic and externship projects. Currently undertaking Pfizer's AI-Powered Document Insights and Data Extraction Externship, gaining experience in document processing, data preparation, and AI-assisted automation. Seeking a Level 6 apprenticeship in data, AI, or technology in London from January 2027, and open to relocating elsewhere in England.

Technical Skills

Programming and tools: Python (data structures, control flow, functions, and data preprocessing), pandas, scikit-learn, Google Colab, GitHub, LaTeX, and Overleaf

Data handling and analysis: CSV, JSON, and plain-text processing, data cleaning, missing-value analysis, duplicate removal, categorical encoding, exploratory data analysis, correlation analysis, feature selection, feature importance, and data visualisation

Machine learning and AI: Supervised classification, model training, comparison, and evaluation, cross-validation, hyperparameter optimisation, ensemble learning (bagging, boosting, and stacking), generative AI, LLM and Transformer concepts, prompt engineering, and RAG concepts

Document intelligence and OCR: PyMuPDF, Tesseract, PaddleOCR, EasyOCR, multi-page PDF extraction, bounding-box analysis, structured data extraction, layout-aware OCR, image preprocessing, regex-based text cleaning, and OCR accuracy comparison

Business intelligence and systems: Requirements analysis, KPI design, dashboard design, data-quality assessment, requirements traceability, AI workflow design, cloud computing concepts, IoT and edge-cloud architecture, MQTT, and SDLC methodologies

Governance and professional: AI governance, human-in-the-loop design, cybersecurity principles, data privacy, risk assessment, research, technical report writing, presentation skills, and stakeholder communication

Relevant Experience

AI-Powered Document Insights and Data Extraction Extern

July 2026–Present

Pfizer Advanced Externship, delivered through Extern

- Built and ran Python notebooks in Google Colab to load, clean, and preprocess CSV, JSON, and plain-text data for AI-powered document workflows.
- Extracted and structured text from multi-page pharmaceutical PDFs using PyMuPDF, inspecting bounding boxes and identifying extraction issues involving tables, columns, and multi-word fields.
- Preprocessed scanned document images and compared Tesseract, PaddleOCR, and EasyOCR based on extraction accuracy, layout handling, usability, and output quality.
- Applied regex-based cleaning to OCR outputs and identified PaddleOCR as providing the strongest balance between text accuracy and layout-aware extraction for the document tested.
- Produced a detailed explanation of LLM training, Transformer architecture, contextual prediction, and post-training fine-tuning with human feedback.

Selected Technical Projects

Mushroom Classification Using Machine Learning

2026

HND Fundamentals of Artificial Intelligence Project

- Cleaned and prepared a dataset containing more than 60,000 records, addressing duplicate records, missing values, and categorical variables.
- Trained and compared multiple classification and ensemble models, including Random Forest, SVM, KNN, Logistic Regression, Decision Tree, Naive Bayes, Bagging, AdaBoost, and Stacking.
- Evaluated model performance and identified influential features, including odour, gill colour, and spore-print colour.

Leeds City-Centre Footfall Analysis
HND Business Intelligence Project

2026

- Analysed public movement data to compare locations, activity patterns, and trends relevant to retail decision-making.
- Translated business requirements into suitable KPIs, visualisations, and a dashboard design supporting clearer interpretation of potential opportunities.
- Evaluated data quality, usability, and the limitations affecting organisational implementation.

Software Investigation and SDLC Design
HND Software Development Lifecycles Project

2026

- Conducted a systems investigation for an independent bakery, using stakeholder interviews to analyse manual ordering, stock-control, and customer-management workflows.
- Designed a conceptual integrated POS, inventory, customer-ordering, and loyalty solution using a hybrid Waterfall and Agile lifecycle.
- Produced a requirements traceability matrix, process maps, state diagrams, and a feasibility assessment covering technical, operational, economic, legal, and scheduling considerations.

Education

BTEC Level 5 Higher National Diploma in Digital Technologies
University Centre David Game London

2024–December 2026 (expected)

- AI pathway with relevant study in artificial intelligence, business intelligence, emerging technologies, cloud fundamentals, innovation, and digital transformation.
- Developed practical and analytical work involving Python, machine learning, data interpretation, AI governance, and technology-focused business problem-solving.
- Student President, representing the student body and liaising with staff on matters affecting the student experience.

Bachelor's Degree in Slavic Languages
Faculty of Humanities and Social Sciences, University of Zagreb, Croatia

2012

- Awarded an Erasmus scholarship to complete the second year of the degree at Comenius University in Bratislava, Slovakia.

Employment History

Editor
Three Panels Press, Remote

2024–Present

- Edit and proofread poetry, interviews, blog articles, and other magazine content, ensuring accuracy, clarity, and consistency while preserving each contributor's voice.
- Serve on the editorial committee, reviewing submissions and contributing to decisions about which poems are selected for publication.
- Review and approve the magazine's visual layout, working remotely with committee members to ensure that written and visual content is presented effectively.

Personal Assistant and Nanny
Various Private Households, London

2013–Present

- Worked in roles combining personal assistance, childcare, and household support, adapting responsibilities to the needs of each household.
- Managed scheduling, appointments, correspondence, travel arrangements, research, errands, or household administration.
- Coordinated changing schedules and priorities, handled day-to-day issues independently, and communicated with families and external contacts.
- Maintained discretion when handling confidential, personal, and household information.

German-to-Croatian Script Translator
Constantin Entertainment

2011

- Translated German television scripts into Croatian for spoken delivery, preserving meaning and tone.