

Abdul Basit

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SUMMARY

Computer Science student with practical programming and teaching experience, eager to support research projects and course preparation in digital industrial service systems. Proven ability in technical development and instruction, with strong proficiency in Office programs and knowledge of Java, Python, and LaTeX. Passionate about information systems, business process management, and contributing to innovative academic research and publications.

EDUCATION

Eötvös Loránd University

Bachelor of Science

Major in Computer Science

Cumulative GPA: 4.71/5.0

Relevant Coursework: Introduction to Probability and Statistics; Machine Learning; Algorithms; Business fundamentals

Budapest, HU

Sep 2022 - July 2025

WORK EXPERIENCE

NEERY

Web Developer

Budapest, HU

Dec 2023 – March 2024

- Developed and maintained full-stack web applications using **React** for the frontend and **Java (Spring Boot)** for the backend, improving performance and scalability.
- Built **CI/CD pipelines** using **GitLab CI** to deploy **microservices** to **AWS EC2**, reducing deployment time by 70%.
- Led the backend integration of **RESTful APIs** using Spring Boot with **OpenAPI** documentation via **Swagger**.
- Worked in an agile team environment using Jira and GitLab for task tracking and collaboration.

Eötvös Loránd University Faculty of Informatics

Object-Oriented Programming Instructor

Budapest, HU

Feb 2025 – July 2025

- Taught OOP principles to 16+ students weekly, achieving a 100% pass rate and helping the class reach an 80% average through personalized mentoring and practical design exercises.
- Guided students in implementing object-oriented programming concepts in **Java** by designing and developing real applications and modular **system architectures**, reinforcing best practices in encapsulation, inheritance, and polymorphism.

UNIVERSITY PROJECTS

Sentiment Analysis Dashboard

Jan 2025 - April 2025

- Developed a real-time analytics dashboard using FastAPI and Hugging Face Transformers; deployed using Docker on AWS. Visualized data with Chart.js. Integrated Redis as a caching layer (proof of concept). Added Prometheus for basic performance metrics
- Fine-tuned transformer-based **NLP models** (BERT, RoBERTa, DistilBERT, and **DeBERTa**) on YouTube comment data for public sentiment classification; achieved an **F1 score** of **83.7** on the validation set.
- Integrated model inference into a FastAPI backend and visualized sentiment trends via Chart.js and custom dashboards.
- Explored prompt-based text summarization and laid groundwork for **RAG**-style retrieval using FAISS (prototype stage).

Safari Game project

Feb 2025

- Developed and tested a safari simulation game using **Python: Pygame** and **Pytest** in a team of 4 members.
- Collaborated using **GitLab** for version control and task coordination.

Scalable Data Systems

- Designed and deployed a real-time sentiment analysis system using FastAPI, Docker, and AWS, capable of handling thousands of requests with NLP model inference and trend visualization.
- Optimized backend logic for scalable microservice performance using asynchronous Python and REST principles.

- Currently exploring batch/stream processing with Kafka and distributed task queues (Celery, RabbitMQ) for personal projects.

ADDITIONAL

Programming and Software Development: • Java, Python, R, Javascript, TypeScript, Haskell, Spring Boot, JUnit, NextJS, React, Jest, HTML/CSS, FastAPI

MS Office: Office Programs, Word, Excel, PowerPoint

Research & Domain Expertise: Information Systems, Scientific Work Experience, LaTeX (document preparation, publications)

Collaboration & Tools: Jira, GitHub, Bash Scripting

Languages: Fluent in English; Native Proficiency in Urdu, Punjabi

Certifications & Training: The Web Developer Bootcamp (Udemy); Python for Data Science AI & Development (IBM Coursera); Supervised Machine Learning (Coursera); Algorithmic Toolbox (Coursera)

Awards: Stipendium Hungaricum Merit Scholarship (2022); Ehsaas Undergraduate Scholarship (2021)

ACTIVITIES

Erasmus+ Youth Exchange: Never Give Up
Youth Worker

Lodz, PL
April 2023