

Abdul Wahab

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SUMMARY

CS student with hands-on experience building end-to-end ML systems and LLM-powered agents. Currently engineering production data pipelines at BisViews processing 50,000+ records across 10+ countries using optimized geocoding. Deep technical curiosity—whether fine-tuning LLMs with LoRA/QLoRA or designing scalable pipelines, I learn systems thoroughly before optimizing.

EXPERIENCE

Data Engineer

Feb. 2025 – Present

BisViews

Remote

- Engineered multi-layered geocoding pipelines prioritizing free sources (Nominatim, OSM) before paid APIs, processing 50,000+ business location records across 10+ European countries
- Built automated data quality validation pipelines detecting and resolving critical errors across datasets, improving integrity at scale
- Standardized heterogeneous datasets into unified 22-column schema enabling consistent cross-country analytics for franchise expansion

PROJECTS

BeLeaf AI | TypeScript, React, Firebase, Gemini API

2025

- Defined AI product roadmap and built core features (chatbot, voice assistant, facial recognition tools) boosting user interaction by 40% across 10 classrooms
- Achieved 100% positive teacher/parent approval through iterative UX feedback, driving measurably higher student engagement
- Deployed accessibility-first AI tools directly improving classroom experience for 10+ schools

SpreadsheetAnalyzer AI Agent | React, FastAPI, LangGraph

2025

- Designed multi-step reasoning agent enabling non-technical users to extract insights via natural language using LangGraph orchestration
- Built modular FastAPI backend orchestrating data retrieval, statistical analysis, and NLG in automated workflow
- Demonstrated expertise in AI agentic systems and multi-step reasoning chains

AeyeSafety4U | React, Flask, Google Vision, LoRA/QLoRA

2024

- Fine-tuned LLMs with LoRA/QLoRA for domain-specific dietary guidance, cutting inference cost by 40%
- Delivered personalized recommendations in **under 20 seconds** via full-stack app integrating Google Vision API for real-time food label scanning
- Demonstrated expertise in LLM optimization and production-grade full-stack AI development

Image Classification Pipeline | AWS EMR, PySpark, TensorFlow

2025

- Built distributed ML pipeline processing 10,000+ images on AWS EMR; applied distributed PCA reducing feature dimensionality by 60%
- Reduced cloud compute costs by 70% through local Spark testing strategy, reserving EMR exclusively for production
- Demonstrated mastery of distributed computing, ML optimization, and cloud cost engineering

OutreachRocket | OpenAI Agents SDK, LLM Personalization

In Development

- Building AI-powered cold email platform leveraging OpenAI Agents SDK to personalize outbound campaigns at scale
- Implementing LLM-based prospect research and message generation automating manual workflows

EDUCATION

University of Pécs

Pécs, Hungary

Bachelor of Science in Computer Science

Sep. 2024 – Expected Feb. 2028

- Relevant Coursework: Machine Learning, Deep Learning, Big Data, Database Systems, Data Structures, Software Engineering

TECHNICAL SKILLS

Languages: Python, TypeScript, C++, SQL, JavaScript, HTML/CSS

AI/ML: TensorFlow, PyTorch, Scikit-learn, LangGraph, OpenAI Agents SDK, LoRA/QLoRA, RAG

Frameworks: React, FastAPI, Flask, Django

Data: PySpark, Pandas, NumPy, Google Places API, geocoding pipelines

Cloud / Tools: AWS (EMR, S3, EC2), Docker, Kubernetes, Claude Code, Git