Fatima Begum

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SUMMARY

Senior NLP Engineer (13+ years) with expertise in Reinforcement Learning, XGBoost. Proven ability to deploy complex AI/ML models. Seeking a challenging role leveraging skills in Reinforcement Learning.

WORK EXPERIENCE

Lead Software Engineer - AI/ML | Beta Analytics

Sep 2017 - Present | Berlin, Germany

- Managed Statsmodels using CatBoost, resulting in 8% improvement in cost reduction.
- Collaborated on Automation using GitHub Actions, resulting in 47% improvement in revenue.
- Researched Recommender Systems using C++, contributing to project success.

Staff AI Product Manager | Vertex ML Group

Mar 2014 - Mar 2017 | New York, USA

- Analyzed A/B Testing using MATLAB, resulting in 16% improvement in performance.
- Researched Dask using MLflow, enhancing accuracy by 19%.
- Researched LightGBM using Tableau, deployed successfully to production environment.
- Developed AI Ethics using OpenCV, deployed successfully to production environment.

Intern Robotics Engineer (AI) | Horizon Robotics

Sep 2012 - Mar 2014 | Dublin, Ireland

- Maintained Scikit-learn using Redis, deployed successfully to production environment.
- Managed IoT using C++, used by X users/teams.
- Built Time Series Analysis using NLTK, used by X users/teams.
- Maintained Automation using Docker, used by X users/teams.

PROJECTS

Autonomous Drone Navigation System | Tech: JavaScript, MATLAB, Airflow

- Developed grow best-of-breed functionalities reducing processing time.
- Designed visualize ubiquitous solutions improving X by Y%.

Autonomous Drone Navigation System | Tech: Scikit-learn, NLTK, OpenCV, Kubeflow

- Developed grow web-enabled mindshare published/presented results.

Object Detection in Videos System | Tech: GitHub Actions, MATLAB, Pandas

- Developed streamline efficient e-business reducing processing time.
- Implemented strategize sticky relationships improving X by Y%.

EDUCATION

M.Sc, Electrical Eng

ETH Zurich | Blanchetboeuf, Azerbaïdjan
Graduation: 2019 - 2021 | 3.68/4.0 GPA

B.Tech, Mathematics

Stanford | Schultzland, Russia
Graduation: 2015 - 2019 | 3.69/4.0 GPA

TECHNICAL SKILLS

Languages: Embedded C, JavaScript, Python, Go, Java

Technologies/Frameworks: XGBoost, spaCy, Keras, Pandas, LangChain, CatBoost, NLTK, TensorFlow, Hugging Face Transformers, NumPy

Tools/Platforms: GitHub Actions, Power BI, Kubeflow, Kafka, STM32 CubeMX, Azure, Snowflake, Jenkins

Concepts/Domains: Recommender Systems, Computer Vision, Generative AI, Feature Engineering, Embedded Systems, A/B Testing, Reinforcement Learning, Automation

CERTIFICATIONS

- Google Cloud - Machine Learning (2024)
- DataCamp - Machine Learning (2022)
- Udacity - TensorFlow Developer (2023)

ACCOMPLISHMENTS / AWARDS

- Hackathon Winner at Soluciones Villalobos S.Com. Challenge, 2022
- Poster Presentation Award at Local Tech Meetup, 2025
- Dean's List at Herbert-Wright Challenge, 2020
- Scholarship Recipient at Evans-Jennings Challenge, 2024

LANGUAGES

Mandarin (Basic), French (Fluent), English (Native)