

Giedrius Banys

24 Obelisk Road
Southampton
Hampshire
SO19 9BN

07935443022 | giedriusbanys150@gmail.com | www.linkedin.com/in/giedrius-banys-66659b193

PROFILE

A dedicated junior AI specialist with certifications from the Cloud Native Computing Foundation, AWS, Microsoft, and HashiCorp, alongside professional membership with BCS. With over two years of hands-on experience in python and its data science ecosystem, I specialize in developing and deploying AI solutions that drive innovation. My expertise spans machine learning, cloud engineering, and DevOps, enabling me to build scalable, efficient, and robust AI applications. Passionate about leveraging AI to accelerate digital transformation and solve complex business challenges.

EDUCATION & QUALIFICATIONS

Institute For Apprenticeships and Technical Education - Level 7 Artificial Intelligence Data Specialist	2024
University of Southampton - Bachelor`s degree aeronautics and astronautics	2022

WORK EXPERIENCE

Junior Data Scientist | Lloyd's Register Group Limited

Jan 2025 to Present

- Designed and implemented a sophisticated LangGraph system, enabling seamless interaction between multiple LangGraph React agents and various tools to efficiently process and resolve user queries.
- Deployed and optimized a Streamlit dashboard as an Azure App Service, enhancing real-time monitoring and analysis of customer feedback.
- Contributed to the construction and deployment of cloud infrastructure for the RAG application using Terraform, Docker, and Azure DevOps, ensuring seamless integration and operational efficiency.
- Created a high-performance python algorithm for assigning vessel type tags to maritime regulation documents, improving processing efficiency while minimizing cost.
- Contributed to the successful deployment of a chatbot application on a Kubernetes cluster, enhancing scalability, reliability, and availability.

Data Analyst | Lloyd's Register Group Limited

Jan 2023 to Jan 2025

- Spearheaded the implementation of an advanced outlier detection system utilizing the Isolation Forest model and MLESAC, achieving a near 2% reduction in the model's test NRSME.
- Engineered a sophisticated Stacking regression model combining XGBoost, Polynomial Regressor, and K-Nearest Neighbors using scikit-learn, resulting in a significant decrease in prediction error to 3% NRMSE for TPCMI and displacement.
- Demonstrated robust expertise in collaborating with diverse teams within an Agile environment, leveraging Git and Linux to enhance team productivity and project success.
- Played a key role in developing a cutting-edge RAG application based on maritime regulation documents, utilizing the GPT-4o large language model and Azure OpenAI service.
- Developed intuitive and responsive chatbot interfaces using HTML, CSS, and JavaScript, ensuring a seamless user experience across all devices.
- Proficiently utilized Jupyter notebooks and Python to address complex problems with vessel data, delivering impactful solutions.
- Produced insightful plots and diagrams with matplotlib and seaborn, effectively communicating findings to team members to drive data-informed decisions.

CERTIFICATIONS

- **Linux Foundation: Certified Kubernetes Application Developer [2025],**
- **Linux Foundation: Certified Kubernetes Administrator [2024],**
- **Microsoft Certified: DevOps Engineer Expert [2025],**
- **Microsoft Certified: Azure Developer Associate [2025],**
- **Microsoft Certified: Azure Administrator Associate [2024],**
- **Microsoft Certified: Azure AI Engineer Associate [2024],**
- **Microsoft Certified: Azure Data Engineer Associate [2024],**
- **Microsoft Certified: Azure Data Scientist Associate [2024],**
- **AWS Certified DevOps Engineer Professional [2024],**
- **AWS Certified Machine Learning Specialty [2024],**
- **AWS Certified SysOps Administrator Associate [2024]**
- **AWS Certified Solutions Architect Associate [2024],**
- **AWS Certified Developer Associate [2024],**
- **HashiCorp Certified: Terraform Associate (003) [2024],**

PERSONAL PROJECTS

Developed a Retrieval-Augmented Generation (RAG) Application for NASA News Articles

- Architected and deployed a scalable RAG application on Amazon EKS, utilizing AWS CodePipeline and Amazon ECR for seamless CI/CD and container management.
- Integrated Qdrant vector store for efficient storage and retrieval of embeddings, ensuring high-performance data handling.
- Automated infrastructure provisioning and deployment using Terraform.
- Developed backend services in Python, incorporating Beautiful Soup for web scraping and leveraging LangChain and Azure OpenAI.

Developed a Heart Disease Predictor App

- Deployed a heart disease predictor application using Azure Kubernetes Service with a responsive React UI, enabling real-time patient risk assessment.
- Engineered robust data pipelines using Apache Airflow, trained and registered predictive models with MLFlow, and deployed model inference via BentoML for seamless integration.
- Provisioned and managed cloud infrastructure using Terraform, ensuring scalability, reliability, and efficient resource utilization.
- Developed and trained a high-performing voting classifier using scikit-learn, enhancing predictive accuracy through ensemble learning techniques.