Ashkan Nikfajram

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EDUCATION

Bachelor of Science, Data Science (GPA: 3.7)   Aug 2023 - May 2025
San Jose State University, San Jose, CA
Transfer AA, Mathematics (GPA: 3.88)   Jan 2020 - Apr 2023
City College of San Francisco, San Francisco, CA

RELEVANT SKILLS

Languages: C++, Java, Python, JavaScript(React), HTML, CSS **| Agents:** LangChain, LangGraph, LangSmith **| ML Frameworks:** Scikit-Learn, PyTorch, TensorFlow, Keras, Vaex **| Data Libraries:** Pandas, Seaborn, Matplotlib, Plotly, BeautifulSoup, Dash, Marimo, Jupyter **| Databases & ORMs:** SQLite, MySQL, SQLAlchemy, Firebase RealTime DB, FireStore DB **| Cloud:** Workflow, DockerHub, GitHub, GCP (Compute Engine, Cloud Composer), Vercel, Render, Azure (Cloud Storage, VMs)

PROJECT EXPERIENCE

GeneScope: MultiModal Deep Learning for Breast Cancer Biomarker Discovery & Prognosis   Jan 2025 - May 2025
https://gene-scope-liard.vercel.app/ , *https://github.com/ANikfarjam/GeneScope*
- Built a full-stack web application allowing users to classify breast cancer stages using a Multi-DNN with intermediate fusion, MLP, and CatBoost models optimized for imbalanced datasets
- Combined statistical and ML methods (Analytical Hierarchical Process, Cox Hazard Regression, Gradient Boosting Trees) to analyze biomarkers and prognosis, with findings visualized in an interactive dashboard
- Integrated a LangChain-based chatbot powered by Pinecone vector search to answer user questions about gene roles, clinical terms, and biological concepts based on indexed documents and lecture notes

StairCase: Multiplayer Game with AI Minigames   Jan 2025 - May 2025
https://stair-case.vercel.app/ , *https://github.com/ANikfarjam/StairCase*
- Built a cross-platform Snakes & Ladders-style game using Pygame, Flask, Firebase Auth, and Firestore DB with real-time multiplayer and party system support
- Designed and deployed a full-stack architecture (React frontend on Vercel, Flask backend on NorthFlank via Docker) with modular API routes using Flask Blueprints
- Integrated LangChain agents, utilizing Mistral AI LLM, to power dynamic trivia and hangman minigames, enhancing gameplay with LLM-generated content

X-Ray Image Classification   Oct 2024 - Dec 2024
https://github.com/ANikfarjam/X-ray-Image_classification_CNNRNN
- Trained a Convolutional Neural Network along with a bidirectional LSTM Recurrent Neural Network to classify X-ray images based on location and identify fractured versus non-fractured bones
- Utilized Keras Tuner NAS(Network Architecture Search), to optimize hyperparameters and network structure, achieving a test accuracy of 89.5%

CityPlus Germany   Mar 2024 - May 2024
https://github.com/ANikfarjam/Germany-City-Plus-Kmean-Clustering-ML-Learing-and-Rulebase-AI
- Designed a platform recommending German cities to immigrants by analyzing economic, social, and political factors using machine learning
- Trained a K-means clustering model combined with a rule-based agent to match user preferences to cities
- Built an interactive visualization website with Plotly and Dash to explore city trends and attributes

GeneQuest   Oct 2024 - Dec 2024
https://github.com/ANikfarjam/GeneQuest
- Developed a web-based bioinformatics platform that integrates GenBank search, BLAST alignment, phylogenetic tree construction, and visual sequence alignment to streamline genetic data analysis for researchers
- Implemented a two-layer architecture using ReactJS for the frontend and Flask for the backend, facilitating seamless communication with NCBI APIs and other Python libraries for computational tasks

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WORK EXPERIENCE

IT Consultant, Robert Half Technology, San Francisco, CA   May 2019 - Apr 2020
- Managed clients' servers and provided user support to enhance office efficiency and productivity
- Developed and implemented Python and Bash scripts tailored to client IT projects, automating routine tasks such as backup and mapping network drive scripts, and updating and pushing Cisco network configurations
- Engineered comprehensive dashboards for IT departments using JavaScript/HTML/CSS to centralize access to IT resources and actions, such as to manage inventory or monitor server health

IT Technician, Click Away, Sunnyvale, CA   Feb 2016 - Mar 2017
- Provided managed IT and server maintenance services to businesses and organizations such as Stanford Hospital
- Performed networking tasks including setting up routers, switches, access points, IP routing and NAS systems