ANIKET DIXIT

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EDUCATION

University of Michigan — Ann Arbor, MI
Bachelor of Science in Computer Science, Bachelor of Science in Linguistics — *May 2025*
- GPA: 3.7/4.0
- Relevant Courses: Data Structures and Algorithms, Computer Organization, Syntax, Introduction to Artificial Intelligence, Computational Linguistics, Databases, Cryptography

TECHNICAL SKILLS

Languages: Python | C/C++ | SQL (PostgreSQL, Oracle) | Javascript | R | CSS/HTML | Assembly
Frameworks: Jupyter | Sci-Kit Learn | Spring | Tableau | MATLAB | PyTorch | Agile
Developer Tools: Git | PyCharm IDE | VSCode | Conda | Docker | Apache Spark | XCode | iOS/MacOS
Libraries: pandas | NumPy | Matplotlib | NLTK | Spacy | BeautifulSoup | JSON | React

WORK EXPERIENCE

EcoData Heatmap Project — February 2023 – April 2023
Data Science Team — *Ann Arbor, MI*
- Extracted 200,000+ points of environmental data and created a **Tableau** heatmap model for visual insights.
- Merged 30+ geospatial shapefiles with chemical data using **QGIS**, **Apache Spark**, and **Fiona** to write GIS information.
- Collaborated with professors to implement IDW spatial interpolation for enhanced data precision, improving accuracy by 20%.

University of Michigan Museum of Paleontology — October 2021 – June 2022
Data Analyst — *Ann Arbor, MI*
- Developed a **Python** script to extract metadata from 5,000+ CT fossil scans, improving database efficiency by 35%.
- Created 20+ high-fidelity photogrammetry models by merging 1,200+ specimen photos using **MeshLab** and RealityCapture.
- Assisted in cataloging 500+ fossil specimens and using advanced analytics to predict specimin sample growth with **Tensorflow**.

PROJECT EXPERIENCE

Quiz Bowl Parser | *Wikipedia API, Python, Flask, JavaScript, HTML, Linux/Bash* — August 2023 – Present
- Deployed a full stack Quiz Bowl application to over 20 students on Heroku, enhancing practice and tournament preparation.
- Parsed and organized 150,000+ quiz bowl entries into **JSON** for efficient delivery and display.
- Developed a backend with **Flask** and a dynamic frontend with **JavaScript**, incorporating OAuth for enhanced security.

Music Predictor RNN | *Python, Docker, LIME, PyTorch, TensorFlow Keras* — February 2024 – April 2024
- Implemented deep learning with **PyTorch** to classify song lyrics by artist, achieving 85% training and 80% test accuracy.
- Utilized **Docker** for containerization and implemented GitHub version control for CI/CD, reducing deployment time by 30%.
- Integrated machine learning functionality using **TensorFlow Keras** for preprocessing text data and LabelEncoder for efficient label encoding, leading to a 20% improvement in model training efficiency.

LEADERSHIP

Inter Cooperative Council — August 2023 – May 2024
Financial Board Representative — *Ann Arbor, MI*
- Oversaw the allocation of a $1,000,000+ budget for facilities and safety maintenance with 25 board members.
- Collaborated on an energy reserve plan, reducing overall energy consumption by approximately 23%.
- Employed my communication skills and decision making to inspect and assess 20+ ICC properties in line with state law

RESEARCH EXPERIENCE

Department of Classical Studies — August 2024 – Present
Research Assistant — *Ann Arbor, MI*
- Reviewed and translated 134 primary Latin sources, providing accurate translations for academic research.
- Modified and used a basic **RESTful API** to collect grammatical information from the Perseus Digital Library