

UJJWAL KUIKEL

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SKILLS

- **Programming Languages:** Python, SQL, Java
- **Data Science & ML:** Regression, Classification, Clustering, A/B Testing, Experimental Design, Hypothesis Testing, Monte Carlo Simulation
- **ML Libraries:** Scikit-learn, XGBoost, SHAP, PyTorch, HuggingFace Transformers, Statsmodels, Pandas, NumPy
- **Data Visualization & BI Tools:** Power BI, Excel, JMP, Matplotlib, Seaborn, Streamlit
- **Databases and Storage:** PostgreSQL, MySQL, MongoDB, Redis, Firebase
- **Cloud & DevOps:** AWS, Docker, Git, Heroku, Linux
- **Other:** Agile/Scrum, Jira, Communication, Collaboration

EDUCATION

Master of Science in Computer Science (4/4 GPA)

Bowling Green State University

August 2023-Present

Ohio, USA

Bachelor of Technology in Information Technology (3.82/4 GPA)

Christ University

June 2018-May 2022

Bangalore, India

PROJECTS

Kidney Transplant Simulation & Strategy Optimization (Thesis Project)

- Simulating kidney transplant allocations to evaluate how acceptance strategies (e.g., HLA mismatch thresholds, KDRI limits) impact recipient wait time and graft quality.
- Implemented Monte Carlo-based agent simulation to replicate recipient-donor matching under various clinical constraints.
- Generated comparative visualizations and wait-time distributions to guide clinical decision-making in transplant centers.

Urban Heat Island (UHI) Prediction Using Geospatial AI (2025 EY Open Science Challenge)

- Ranked Top 10 in USA (out of 2,076) in 2025 EY Open Science Challenge with an R^2 of 0.962.
- Built ensemble ML models (Random Forest, XGBoost) using satellite imagery to predict urban heat trends.
- Identified key climate factors (NDVI, LST) with SHAP analysis, enhancing urban planning insights.

Insurance Premium prediction with Clustering-aided ML models.

- Developed a cluster-based modeling pipeline by grouping individuals based on health attributes to tailor insurance premium predictions.
- Applied interpretable ML models (e.g., decision trees, logistic regression) within each cluster, improving accuracy and transparency in premium estimation.

Fault Detection and Analysis of Inverter Performance in a Solar Plant using JMP.

- Conducted a comprehensive analysis of inverter performance in a solar plant using statistical software JMP, identifying underperforming units and potential maintenance needs based on power generation data.
- Implemented advanced data visualization techniques to effectively display daily yield, irradiation, and power metrics, facilitating improved operational efficiency and informed decision-making for solar plant management.

Resume Evaluator using large language models.

- Designed a resume analysis tool using Hugging Face transformers, Langchain, and Streamlit to generate personalized, section-wise feedback based on job descriptions.
- Integrated keyword matching, ATS-friendly formatting suggestions, and action-verb critiques to improve alignment with targeted roles.

WORK EXPERIENCE

Bowling Green State University

Teaching Assistant

Ohio, USA

August 2023-Present

- Facilitated weekly labs and study sessions for Data Structures and Algorithms course, guiding 60+ students in understanding time complexity, recursion, trees, graphs, and sorting algorithms.
- Graded assignments and exams while providing detailed feedback and mentoring on algorithm design and code efficiency.

Springfive Consulting Services

Bangalore, India

Software Engineer

June 2022-July 2023

- Collaborated on CRM system development for clients like Disneyland Paris, focusing on customer segmentation and marketing insights.
- Built and optimized Salesforce Marketing Cloud batch jobs, automating personalized campaign targeting and user engagement tracking.
- Aggregated and analyzed customer behavior data to support User Acquisition (UA) and retention strategies, improving campaign accuracy by 25%.
- Designed and deployed REST APIs handling 100k+ daily API requests, integrating marketing and CRM systems across platforms.
- Enhanced PostgreSQL performance by 200% and reclaimed 300GB+ of storage through index optimization and vacuuming processes.

LG Soft India

Bengaluru, India

Internship Trainee

May 2021-August 2021

- Underwent training on LG webOS, web development and React Native and led a team in developing a recipe recommendation system for LG refrigerators, incorporating machine learning models, and presented it in LG webOS hackathon.

Certification and Honors

- Ranked **Top 10** in USA (out of 2,076) in **2025 EY Open Science Challenge**.
- **Introduction to Data Science in Python** from **University of Michigan** via **Coursera**
- **Understanding and Visualizing Data with Python** from **University of Michigan** via **Coursera**
- **Secretary of Nepali Student Association** at **BGSU**