Prem Kalyan David Raj, Gai

+1(603-512-4826)

PremKalyanDavidRaj.Gai@unh.edu | linkedin.com/in/gaipremkalyandavidraj | ⃝ PremKalyanDavidRaj

EDUCATION

University of New Hampshire - Manchester, New Hampshire **August 2023 – May 2025**
Master of Education Information Technology *GPA 3.47/4*
Relevant Coursework: Software Engineering, Data Science, Cloud Computing, Machine Learning.

Vignan's Foundation for Science, Technology - Guntur, Andhra Pradesh **June 2017 - July 2020**
Bachelor of Education Computers Applications *CGPA 7.5/10*
Relevant Coursework: Computer Networks, Web Technologies, Database Management Systems.

EXPERIENCE

Tata Consultancy Services - Hyderabad, India **December 2021 - August 2023**
Software Developer

- **Product Development:** Developed a web application and automated infrastructure processes using Python and Ansible, significantly reducing downtime and enhancing system reliability.
- **DevOps & Security:** Managed servers, automated deployments, and improved system security by implementing best practices in DevOps, ensuring seamless integration of system components.
- **Front-end & Back-end Development:** Utilized React.js, HTML, CSS, and Node.js to develop and enhance web applications, demonstrating a quick learning curve with new technologies.

Community services - New Delhi, India **May 2020 - January 2021**

Associate Trainee

- **Program Development:** Analyzed and contributed to a short-term leadership program, improving participant engagement by 20% and retention by 15%.
- **Team Collaboration:** Worked closely with cross-functional teams to deliver impactful community programs, demonstrating strong teamwork and communication skills.

Technical Skills

- **Languages/Frameworks:** Python, JavaScript, TypeScript, HTML, CSS, React.js, Node.js, Django.
- **Tools/Technologies:** Google Cloud Platform, Postgres, Git, Ansible, TensorFlow, PyTorch, AWS.
- **Backend Skills:** Server management, API integration, database design, system optimization.
- **Machine Learning:** Linear Regression, XGBoost, Deep Learning frameworks, Reinforcement Learning.

PROJECTS

Calories Burn Prediction System - NH, Manchester **March 2024 – May2024**

- **Machine Learning Application:** Developed a system using Linear Regression and XGBoost to predict calorie burn based on multiple factors. Integrated robust data preprocessing and model evaluation techniques.
- **Technologies Used:** Python, Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn.

News Feed **March 2024 – May2024**

- **Web Application Development:** Built a Django-based web application that aggregates and displays news articles from various sources, incorporating search, filtering, and categorization features.
- **Technologies Used:** Django, HTML, CSS, JavaScript, Postgres.
- Added features such as search, filtering, and categorization to enhance user experience.