Venkata Lakshmi K

+1**(678) 680-8684** ksravya047@gmail.com linkedin.com/in/venkata-lakshmi-680382375/

EDUCATION

I am a Computer Science master's graduate from Georgia State University and a multilingual developer with 4+ years of experience building high-performance web and mobile applications. With a strong foundation in React, Node.js, Python, ML models, and cloud-native systems, I enjoy creating solutions that blend engineering, automation, and intelligence. I'm passionate about AI, ethical tech, and building products that make a real impact, and I'm eager to contribute to teams that value innovation and continuous learning.

SKILLS

C++ | JavaScript | Python | REST APIs | Responsive UI Design | Git Agile | AI/ML Integration | Bug Tracking |Java | JavaScript | TypeScript | Vue | HTML | CSS | Django | Spring Boot | Figma | Docker | Kubernetes | Object Oriented Programming | TensorFlow | PyTorch | Machine Learning | Power BI | MySQL | PostgreSQL | SQL Server | Cloud Platforms **(AWS)** | Jenkins | Gradle | CI/CD Pipelines | Unit Testing | Integration Testing | Agile SDLC | Excel | LLMs | Hugging Face | Design Documentation

EDUCATION

Masters in computer science **August 2023 - May 2025**

Georgia State University, Atlanta, Georgia GPA: 3.65/4.0

Bachelor of Technology in Computer Science **April 2019 - May 2023**

KL University, Vaddeswaram, India GPA: 9.00/10

INDUSTRIAL EXPERIENCE

Graduate Research And Administrative Assistant | *Georgia State University* **August 2023 - May 2025**

- Hands-on experience with front-end frameworks including React.js, Node.js, and MVC architecture, ensuring balanced development across Model, View, and Controller layers.
- Designed and developed a responsive web portal with interactive dashboards to visualize academic research data for 300+ records, using React, JavaScript, and RESTful APIs.
- Built reusable UI components and modular report templates, supporting scalable analytics and improving data-driven decision-making across multiple research teams.
- Processed, cleaned, and visualized large datasets (5,000+ entries) using Python, SQL, and advanced Excel, significantly improving research analysis speed.
- Automated data-publishing workflows and integrated APIs to provide real-time insights, reducing reporting delays by 40%.
- Optimized financial and administrative workflows by developing custom dashboards, templates, and automation scripts, improving operational efficiency by 30%.
- Automated repetitive manual tasks using Microsoft Excel, Adobe Forms, and Python, cutting manual effort and turnaround time by 50%+ for students and faculty.

Software Engineer | *Hexaware Technologies* **Mar 2021 - Jul 2023**

- Engineered high-performance web and mobile applications using AWS, ML Models, and Python, driving seamless user experiences and platform scalability.
- Partnered with leadership to shape product vision, design core architecture, and translate strategic goals into robust technical solutions.
- Built and optimized APIs to enable smooth integration across systems, ensuring reliability and performance at scale.
- Championed clean, reusable code and efficient frontend workflows, improving development speed and maintainability.
- Integrated data intelligence and AI-driven features to enhance product automation, predictive insights, and overall efficiency.
- Deployed analytics and monitoring systems to proactively improve application health and user satisfaction.
- Automating processes with Microsoft Excel, Adobe Forms, and Power Automate, improving data accuracy and reducing manual work by 40%

PROJECTS

Predict Future Software Usage (Regression Model) **2025**

- Developed and trained a regression-based machine learning model to analyze historical user activity and forecast future software usage patterns. Leveraged features such as department, software type, and license category to predict usage hours accurately, enabling proactive planning and optimized license distribution across teams

Vision Language Transformer for Medical Report Generation from Chest X-Rays & Diagnostic Attributes **2024**

- Built a Vision Language Transformer (VLT) model to automate chest X-ray report generation by combining image feature extraction with diagnostic attribute embeddings. Integrated CNN-based encoders with transformer decoders for medical text synthesis, improving diagnostic consistency and reducing reporting time. Evaluated the system using BLEU and ROUGE metrics, demonstrating its potential to assist radiologists in decision support.

Cascade Attention-based Convolutional Neural Network for Skin Cancer Detection **2024**

- Developed CANet, a novel cascade attention-based convolutional neural network integrating spatial, channel, and gated attention mechanisms to enhance feature representation. Trained and validated the model on the ISIC dataset, achieving high classification accuracy for melanoma detection.