

Sri Ranga Bharadwaj Chakilam

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→ Professional Summary

AI/ML & Cloud Engineer specializing in Generative AI, Prompt Engineering, and Cloud-based AI solutions. Experienced in developing and deploying ML models, building production-ready websites using AI prompting, and integrating OpenAI APIs into real-world applications. Skilled in bridging machine learning, full-stack development, and cloud computing to deliver intelligent, scalable solutions. Passionate about transforming innovative AI ideas into tangible business impact.

→ Experience

Software Developer – IvaTech Consulting

Mississauga, Ontario (Remote) | Jun 2023 – Present

- Developed and maintained responsive web applications using React, Next.js, and Firebase.
- Integrated REST APIs, authentication, and state management (Redux, Context API).
- Optimized performance using Lighthouse audits, lazy loading, and accessibility best practices.
- Collaborated with backend engineers for full-stack solutions and cloud deployments via GitHub + Vercel.

→ Skills & Competencies

- Languages: Python, JavaScript
- ML/DL Frameworks: TensorFlow, PyTorch, Scikit-learn
- Core AI Areas: Computer Vision, NLP, Generative AI, Edge AI, Prompt Engineering
- Cloud & Deployment: AWS, GCP, Docker, Firebase, Vercel
- Web Technologies: Django, React.js, Node.js
- Tools & Practices: Git, OpenCV, REST APIs, CI/CD Pipelines, Agile/Scrum

→ Education

Conestoga College, Ontario, Canada Jan 2024 – Apr 2025

Postgraduate Diploma in Web Development

Coursework: Cloud Computing, AI Integration, Full-Stack Development, Agile. Member, Tech Club; Hackathon Participant.

Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, Kancheepuram, India Jan 2019 – Jun 2023

Bachelor of Engineering in Computer Science

→ Academic & Personal Projects

Human Emotion Recognition & Evaluation Using Machine Learning | Django, TensorFlow, OpenAI API





- Built an AI-powered web app that detects emotions using CNNs (FER2013 dataset) and provides adaptive responses via OpenAI API.
- Developed and deployed on cloud, integrating front-end and backend for real-time mental health feedback.

Automatic E-Challan Generation System for Helmet Violations | Python, YOLOv3, OCR, OpenCV

- Created a traffic enforcement AI that detects helmet violations, recognizes license plates, and automates digital challan generation.
- Published results in IJSREM Journal, March 2023.

Generative AI Website Development with Prompt Engineering | Lovable.dev

- Utilized prompt engineering to build and deploy production-ready websites:

-  techbeetle.org
-  sakhyanalytics.com
-  bcc.org
-  ivatechconsulting.com

- Demonstrated AI-driven web development, rapid prototyping, and full-stack integration.

Generative AI Chatbot | OpenAI API, Django, AWS EC2

- Built a domain-specific conversational chatbot deployed on AWS, supporting contextual Q&A and real-time user interaction.

→ Achievements

- Founded and managed Tech Beetle, a tech media page sharing news, reviews, and AI/innovation insights — built a community of tech enthusiasts through consistent content creation.
- Published research in International Journal of Scientific Research in Engineering and Management (IJSREM), 2023.
- Certified in Google Cloud Fundamentals and Python Programming (Coursera).
- AWS Cloud Practitioner (In Progress).
- Member, Conestoga College Tech Club & Hackathon Participant.