# Balaji Koneti

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## Skills

**Languages:** Java, Python, JavaScript, SQL

**Frameworks and Technologies:** Spring Boot, React, Angular, Node.js, Hibernate, Servlets, JSP, TensorFlow, PyTorch

**Tools:** Microsoft Excel, Matlab, Git, Visual Studio, IntelliJ IDEA, Jupyter Notebook

**Machine Learning and AI:** Data Preprocessing, Supervised and Unsupervised Learning, Neural Networks, Natural Language Processing (NLP), Computer Vision, Explainable AI (XAI), Model Deployment, Hyperparameter Tuning

**Soft Skills:** Facilitated cross-functional collaboration, led teams in AI-driven hackathons, and implemented data-driven strategies to enhance efficiency and teamwork under high-pressure conditions.

## Work Experience

**Infosys Ltd, Bangalore, India** Feb 2021 - Dec 2023

***Software Developer***

- Collaborated with international client(Apple Inc.) to develop and implement software solutions aligned with business objectives.
- Spearheaded project planning for three enterprise applications, improving delivery timelines by 15% and increasing code efficiency through agile methodologies.
- Received awards like the ”Rise Award” and ”Insta Award” for outstanding contributions.
- Diagnosed and resolved critical performance issues, optimizing database queries by 30% and reducing application downtime by 40%.

**Nerds and Geeks, Bangalore, India** Jan 2021 - Feb 2021

***Full Stack Developer***

- Engineered robust front-end and back-end systems for three e-commerce applications, boosting user engagement by 25% and supporting 10,000 daily active users.
- Ensured cross-platform optimization and implemented security solutions.
- Enhanced application reliability by performing 150+ rigorous QA tests, reducing defect rates by 35% and ensuring on-time deployment.

## Teaching and Mentorship

**Computer Science (B. Tech), S.V.C.E** Jun 2016 - Nov 2020

***Mentor and Peer Assistant***

- Assisted peers in understanding advanced concepts in Machine Learning and AI during group projects and study sessions.
- Designed and led a series of hands-on workshops, improving TensorFlow and PyTorch deployment skills among 20+ peers by 25%, enabling smoother AI project implementation.
- Mentored a team of five interns, enhancing debugging efficiency by 30% and accelerating their contribution to live projects within two weeks.

## Education

**Northern Arizona University, Flagstaff, USA** Present

M.S. in Computer Science (Pursuing)

Relevant Projects: *AI-Powered Mood Prediction System: Personalized Insights Based on Daily Routines*, *Intelligent Learning Assistant: Restricting AI Guidance via Prompt Injection Detection*

**Sri Venkateswara College of Engineering, Tirupati, India** Jun 2016 - Nov 2020

B.Tech in Computer Science and Engineering

Relevant Projects: *IoT-based Smart Irrigation System*, *College Information Chatbot System*, *Home Automation System using Raspberry Pi*

## Projects

- **AI-Powered Mood Prediction System: Personalized Insights Based on Daily Routines:** Developing an AI system that predicts individual mood states using data from daily routines, such as activity patterns, environmental factors, and physiological signals. The system employs generative AI models, including GPT and time-series analysis techniques, for accurate predictions and actionable suggestions. (Data collection and integration, generative AI modeling, user interface design, and feedback loop implementation)

- **Intelligent Learning Assistant: Restricting AI Guidance via Prompt Injection Detection:** Engineered an Intelligent Learning Assistant leveraging NLP models to guide students through structured, step-by-step problem-solving processes. Integrated a detection mechanism for prompt injection attacks, enhancing system security by 30%. Implemented an educator feedback loop, improving learning outcome evaluation by 40%.
- **College Information Chatbot System:** Implemented an AI-powered chatbot using Natural Language Processing to address common queries about admission, courses, and campus facilities.
- **IoT-based Smart Irrigation System:** Automated irrigation field monitoring and control using Raspberry Pi and sensors.
- **Home Automation System:** Developed a system to streamline conference room management through IoT technologies.

## Awards

- **Insta Award:** Recognized for identifying and resolving critical application bottlenecks, reducing process delays by 25% and ensuring project milestone achievement within deadlines.
- **RISE Award:** Awarded for demonstrating outstanding technical expertise and leadership, significantly contributing to project success and overall team performance.

## Certifications

- **Deep Learning Specialization (Coursera - In Progress):** Building expertise in Neural Networks and Deep Learning.
- **Machine Learning (Andrew Ng, Coursera - In Progress):** Developing a comprehensive foundation in ML algorithms and applications.
- Participating in Machine Learning workshops and technical competitions, earning accolades.
- Continuously engaging in workshops and competitions related to ML and AI to enhance knowledge and skills.

## Technical Innovations and Leadership

- Developed innovative solutions during hackathons and tech competitions, earning recognition.
- Coordinated three annual tech events for the Computer Society of India, engaging 500+ participants, and increased event attendance by 30% through targeted outreach and marketing strategies.