

# Kowshik Mosalakanti

A motivated Computer Science graduate student with hands-on experience in software development, Machine Learning and Data engineering. Seeking a role in Machine Learning to apply my knowledge in developing, optimizing, and maintaining data systems, leveraging my proficiency in Python, Java, and cloud platforms.

## EXPERIENCE

### Software Engineer, Bangalore — Tata Consultancy Services

OCT 2020 - NOV 2022

- Applied **Machine learning** knowledge to streamline and optimize business workflows, incorporating tools like **TensorFlow** and **Keras** for specific domain applications.
- Developed and optimized AI models using **Python** for multimedia and **natural language processing** tasks, ensuring compatibility with embedded systems.
- Collaborated with hardware teams to co-design machine learning solutions, optimizing inference models for deployment on embedded hardware.
- Designed and implemented efficient, low-level system interactions between the **Linux** operating system and hardware components, optimizing runtime performance for AI-driven applications.
- Mentored a team of 5 junior developers, facilitating knowledge transfer in **IBM BPM, Java, and MySQL**, and aligning their efforts with machine learning applications for system optimization.
- Led the development of complex machine learning algorithms to analyze employee performance data, improving accuracy and driving a 25% boost in productivity.

### Software Engineer Intern, Hyderabad — Incline Inventions Pvt. Ltd.

MAY 2019 - JUNE 2019

- Developed a comprehensive expense management system that automates the process of expense submission, approval, and reimbursement.
- Implemented backend services using **Python, SQL** and **MongoDB**, ensuring efficient and scalable data processing.
- Created a dynamic and responsive frontend using **React**, enhancing user experience for employees and managers.
- Conducted statistical analyses (e.g., Bayesian models, probability estimation) to drive insights into employee expense trends, enhancing decision-making processes for managers.

## PROJECTS

**Facial emotion recognition** — Given a human face image, detecting the emotion expressed in the face. Implemented using **Machine Learning, Deep Learning, HaarCascade** **OpenCV**.

**Vehicle License Plate recognition** — Created a project capable of license plate detection, employing computer vision techniques to extract the license plate number. This project is part of an AI contest (HumAIIn) conducted by TCS.

**Tech Trade Web application** — Developed a website for trading items like phones, laptops and other gadgets among users. Implemented using Javascript, nodeJS, ExpressJs and mongoddb.

**Sentiment analysis for Twitter Data** — Developed a text classification model using **Python** and **Keras**, applying NLP techniques for sentiment analysis and document categorization. Fine-tuned model parameters to improve accuracy, achieving a 92% classification success rate.

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## SKILLS

### Programming Languages

Java, Python, Java Script, C, C++

### Data structures & Algorithms

**Machine Learning, Deep Learning and OpenCV**

### Machine Learning Frameworks:

TensorFlow, PyTorch, Keras

### Web Development

NodeJs, ReactJs, ExpressJs

### Cloud Platforms

AWS, Azure, Google Cloud (Familiar)

### Data Science

Basic Statistics, Numpy, Pandas

### Data Visualization

Tableau, Matplotlib

### Database Management

MySQL, MongoDB, Data Modeling, SQL

### Tools & Frameworks

Git, Docker, Apache Spark

**IBM Business Process Management**

## EDUCATION

### University of North Carolina at Charlotte, Charlotte, US — Masters in Computer Science

JAN 2023 - DEC 2024

### R.V.R & J.C College of Engineering, Guntur, India — Bachelors in Computer Science and Engineering

JUNE 2016 - AUG 2020

## CERTIFICATIONS & COURSES

AWS Certified Solutions Architect – Associate (In Progress)

Certified in Design and Analysis of Algorithms course by IIT Madras.

Certified in Machine Learning course by Stanford University Online through Coursera.