# Puneeth P

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## PROFESSIONAL SUMMARY

An engineering graduate specializing in Artificial Intelligence and Machine Learning, with practical experience in implementing AI/ML algorithms, performing data analysis, and developing software solutions. Possesses strong analytical and problem-solving abilities, along with the adaptability to work in dynamic technical environments. Brings professional experience as a Software Engineer, with expertise in designing and customizing enterprise applications using Microsoft Power Apps and SharePoint.

## TECHNICAL SKILLS

Languages: Python, SQL , R Programming.
Libraries: TensorFlow, Pandas, NumPy, Matplotlib, Scikit-learn, BeautifulSoup, Scrapy .
Other: PowerBI, Flask, Git, Github, Machine Learning, MLOps, CNN, NLP.

## EDUCATION

**M.E – Artificial Intelligence and Machine Learning** **2025-Present**
Current GPA: 9.36/10 , Manipal School of Information Sciences, Manipal

**B.E – Artificial Intelligence and Machine Learning** **2020-2024**
CGPA: 9.16/10 , Dayananda Sagar College of Engineering, Bangalore

## EXPERIENCE

**Software Engineer – Sony India Software Centre pvt ltd, Bangalore (Jul 2024 – Jul 2025)**

- Built internal enterprise applications using Microsoft Power Apps and SharePoint to support business workflows.
- Automated business processes and improved data management, enhancing operational efficiency.
- Collaborated with stakeholders to translate business requirements into reliable software solutions.
- Contributed to an AI/ML project by performing data preprocessing, exploratory data analysis, and implementing predictive models on enterprise data.

## PROJECTS

- **CTR Prediction | XGBoost, LightGBM, Random Forest, Scikit-learn, Python, Streamlit**
  - Developed a binary classification pipeline for CTR prediction, performing feature encoding, train–test splitting, and artifact persistence for reproducible inference.
  - Tuned boosting model hyperparameters and implemented a soft-voting ensemble by aggregating model probabilities, selecting XGBoost as the final model based on ROC-AUC and PR performance.
- **SonicSynth | Flask, Whisper Streaming, Transformers, FAISS**
  - Built an AI-driven, IoT-enabled classroom assistant using Whisper's Transformer-based ASR for real-time speech-to-text transcription and automatic lecture note generation.
  - Implemented a Retrieval-Augmented Generation pipeline with semantic embeddings and FAISS to produce accurate summaries and key learning insights using large language models.
- **PCB Defect Detection | PyTorch, Faster R-CNN (ResNet-50 FPN), OpenCV**
  - Developed an object detection system to localize and classify PCB defects using a COCO-pretrained Faster R-CNN with ResNet-50 FPN backbone.
  - Built custom data pipelines from Pascal VOC XML annotations, evaluated performance using IoU and classification metrics, and visualized predictions with bounding boxes.

## CERTIFICATIONS

- Databases and SQL for Data Science - https://coursera.org/share/6003950dc507fb45b6ecb1488e8dd38e
- Generative AI with Large Language Models - https://coursera.org/share/ae08702ed316c95f9f483251f5aff509
- MLOps for Machine Learning - https://coursera.org/share/9d68c329d3347b2faf1862fec72a27d2