

Jobin Jose

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Career Objective

To leverage my expertise in programming, machine learning, and problem-solving in a dynamic role as a Machine Learning Engineer, contributing to innovative projects, driving impactful solutions, and continuously advancing my technical and professional skills in artificial intelligence and data science.

Academic Qualifications

- **B.Tech - Computer Science Engineering:** Adi Shankara Institute of Engineering and Technology ,2024, 7.0 CGPA
- **Higher Secondary Education:** Brahmanandodayam HSS (State Board), 2020, 94.5%
- **Secondary School Education:** St. Patricks Academy (ICSE), 2018, 88%

Experience

AI and Machine Learning Trainee

NTTF, Bangalore
2024

- Trained machine learning models using libraries like NumPy, TensorFlow, and Scikit-learn.
- Performed data preprocessing, feature engineering, and model evaluation to ensure high performance.
- Applied deep learning and computer vision techniques to solve real-world challenges.
- Developed and deployed Streamlit-based web applications to showcase AI solutions.

Technical Skills

- **Programming Languages:** C, Java, Python
- **Database Management:** MySQL, PHP
- **Data Visualization:** Power BI, Excel, Matplotlib, Seaborn
- **Technologies:** Machine Learning, Deep Learning, Artificial Intelligence, Natural Language Processing (NLP)
- **Tools:** TensorFlow, Keras, Scikit-learn, Streamlit, OpenCV, Pandas, NumPy
- **Other Skills:** Data preprocessing, Feature engineering, Model evaluation, Deployment of ML models

Projects

Auto Dimming Headlights for Cars

- Developed a CNN-based image processing system to automatically dim headlamps for oncoming traffic, improving road safety.
- Integrated dynamic steering adjustment to align headlamp direction with steering angle.
- Implemented adaptive brightness control based on vehicle speed for enhanced visibility.
- Enhanced energy efficiency and reduced glare for oncoming vehicles by optimizing headlamp intensity.
- Conducted performance testing under various environmental conditions, achieving 90% accuracy

Autonomous AI Research Assistant for Scientific Discovery (In Progress)

- Developed an AI-powered assistant to analyze and summarize scientific literature, streamlining knowledge discovery.
- Built a **multi-agent AI system** for data retrieval, citation-based summarization, and query processing.
- Integrated **Retrieval-Augmented Generation (RAG)** for accurate, real-time document insights.
- Implemented **context-aware query processing** using memory-based prompting.
- Designed a **Streamlit-based web interface** for seamless document analysis.
- Utilized **Google PaLM LLM, LangChain, FAISS, ChromaDB, FastAPI, and AWS Lambda** for AI processing.

ATS Resume Expert (AI-Powered Resume Evaluator)

- Built an AI-powered resume evaluator using **Google Gemini AI** for NLP-based parsing.
- Assessed resume-job description alignment and provided keyword optimization feedback.
- Used **PyMuPDF, pdf2image** for PDF processing and ATS compatibility analysis.
- Developed a **Streamlit UI** for real-time resume evaluation and improvements.

Q&A ChatBot with Streamlit and Gemini AI

- Built an interactive Q&A chatbot using Streamlit and Google's Gemini AI for efficient query handling.
- Designed a user-friendly interface with input fields for questions and name personalization.
- Implemented API-driven natural language processing to deliver accurate and dynamic responses.
- Demonstrated skills in Python programming, API integration, and real-time application development.

Internships

- **ML & AI Internship @ ICT Academy of Kerala:** Gained hands-on experience in building and deploying deep learning models for real-world applications.
- **ML with Python Training @ LLC Computer Education:** Completed a focused training program, mastering Python libraries like NumPy, Pandas, and Matplotlib.

Certifications

- **Microsoft Certified: Azure AI Fundamentals (AI-900)** – Microsoft
- **IT Automation with Python** by Google (Coursera)
- **Machine Learning Specialization** by Stanford University (Coursera)
- **Data Science and AI Certification:** Completed an 8-month comprehensive course in Data Science and Artificial Intelligence from Entri Elevate, certified by NSDC.
 - Awarded dual certificates from **Entri Elevate** and **Illinois Tech University, USA**.
 - Gained hands-on experience in machine learning, data analysis, and visualization techniques.
 - Mastered tools like **Python, TensorFlow, Pandas, SQL, and Streamlit** for building AI models and data-driven solutions.

Extracurricular Activities

- Active member of IEEE Student Branch, organized workshops on AI and ML for peers.
- Volunteered as a technical coordinator for cultural and technical events, enhancing leadership and organizational skills.