PRAJWAL B S

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PROFESSIONAL SUMMARY

Entry-level AI/ML and Software Engineering enthusiast with hands-on experience in Python-based machine learning, computer vision, and AI projects. Currently expanding into Generative AI, RAG, AI agents, and workflow automation with n8n. Strong foundation in Python, SQL, machine learning, data analysis, and web technologies, with a focus on building practical AI-powered applications.

TECHNICAL SKILLS

Leadership: Team Leadership, Cross-functional Coordination, Communication, Documentation, Event Organization, Problem-Solving
Programming: Python, SQL, JavaScript, HTML, CSS, Nosql
Machine Learning: Scikit-learn & ML Pipelines, Feature Engineering & Preprocessing, Pandas, NumPy & EDA, Classification & Regression, Model Evaluation, Ensemble Models (Random Forest, XGBoost), Cross-Validation & Hyperparameter Tuning, Imbalanced Data Handling, Model Explainability (SHAP), Churn & Predictive Modeling
Deep Learning: Deep Learning fundamentals, PyTorch (foundational)
Generative AI & LLMs (currently learning / foundational): Prompt Engineering, RAG Architecture, AI Agents & Tool Calling, Vector Databases & Embeddings, LangChain, Semantic Search, Document Chunking & Retrieval Pipelines, LLM Application Development
AI Workflow Automation: n8n - building AI workflows and AI-powered website automations (currently learning)
Backend & Deployment: FastAPI, REST APIs, Model Deployment (ML model serving)
Tools & Cloud: Git/GitHub, AWS (EC2, S3, IAM), Microsoft Azure
Other: Matplotlib, Adaptability

PROJECTS

COMPANY'S AGENT BY PJ - RAG-Based AI Agent for Company Knowledge
Python | RAG (Retrieval-Augmented Generation) | LLMs | AI Agents | LangChain | Vector Database | Embeddings | Semantic Search | Document Chunking | Prompt Engineering
AI-Based Network Intrusion Detection System
Python | Scikit-learn | Pandas | NumPy | Matplotlib
Customer Churn Prediction & Retention Engine
Python | Scikit-Learn | XGBoost | Pandas | FastAPI | SHAP
Self-Driving Car - Neural Network Learning Project
Python | Neural Networks | Deep Learning | Computer Vision

PUBLICATIONS / RESEARCH

"Hybrid Intrusion Detection System with Adaptive Learning and Cryptographic Integration for Real-Time Secure Networks"
IEEE Pune Section | ICEC2NT 2026 | D Y Patil College of Engineering, Pune
- Authored a comprehensive research paper detailing novel cryptographic techniques applied to network intrusion detection, resulting in a 25% reduction in false positive alerts.

INTERNSHIP EXPERIENCE

Cloud Computing Intern | Codtech IT Solutions Pvt. Ltd., Hyderabad
- Completed a 6-week internship focused on learning core cloud concepts including compute, storage, and identity & access management.

Digital Media & Social Media Marketing Manager (Intern) | TWICLO
- Supported digital marketing campaigns through content creation, SEO, social media, and campaign performance reporting.
- Coordinated with teams and clients to deliver campaign activities and creative content.

CERTIFICATIONS

- Introduction to Artificial Intelligence
- Microsoft Azure Machine Learning Fundamentals
- Google AI Essentials - Google
- AI for Everyone - DeepLearning.AI / Coursera
- LangChain Academy: Introduction to LangGraph - LangChain
- Prompt Engineering - Anthropic Academy
- IBM AI Fundamentals - IBM SkillsBuild
- Test Automation Foundations
- Android Studio Essential Training

EDUCATION

Master of Computer Applications (MCA) | Jain University, School of Computer Science and IT, Jayanagar | 2025-2027
Bachelor of Computer Applications (BCA) - 82.5% | Jain College, Bengaluru City University
12th Standard - Pre-University Board - 70% | Vijaya Jr PU College, Bengaluru
10th Standard - State Board - 74% | Nalanda English School, Bengaluru

LEADERSHIP & ACHIEVEMENTS

- President, Epiphany (The English Forum) - Jain College Vasavi Campus
- Head, BCA Forum "Cybotixx" - Jain College Vasavi Campus
- Event Organizer and Photography/Video Editor for college club events and content