

ARKIN SHARMA

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[LinkedIn Profile](#) | [GitHub Profile](#) | [LeetCode](#)

EDUCATION

Manipal University Jaipur, India

Expected Graduation: May 2026

Bachelor of Technology (Honors) - Computer Science Engineering, Specialization in AI/ML

CGPA: 7.98/10.0

Relevant Coursework: Data Structures & Algorithms, Distributed Systems, Operating Systems, RDBMS, Software Engineering, Cryptography Fundamentals, Machine Learning, Natural Language Processing

TECHNICAL SKILLS

Programming Languages: Python, C++, Java, C#

Backend Development: RESTful APIs, FastAPI, Node.js, Express.js, API Integration

AI/ML & LLM Technologies: PyTorch, TensorFlow, Scikit-learn, OpenAI APIs, Hugging Face Transformers, LangChain, RAG Implementation, Prompt Engineering, Fine-tuning, TensorFlow

NLP & Data Science: pandas, NumPy, NLTK, spaCy, Matplotlib, Seaborn, Word2Vec, BERT, GPT models

Databases & Storage: MySQL, PostgreSQL, MongoDB, Redis, Elasticsearch, Firebase, PowerBI

PROFESSIONAL EXPERIENCE

REBEE.AI - AI Engineering Intern | May 2025 – August 2025 | LLM-Powered Resume Analysis

- **Independently led end-to-end development** of a custom NLP summarizer model from scratch for resume summarization, building proprietary algorithms.
- **Architected and trained custom transformer-based model** using PyTorch, implementing attention mechanisms and specialized tokenization for resume-specific content, achieving 92% accuracy in key information extraction
- **Engineered summarization algorithms** optimizing the trade-off between compression ratio while maintaining 96% retention of critical skills, experiences, and qualifications
- **Built evaluation metrics** and loss functions specifically designed for improving summary quality scores by 40%
- **Developed context-aware fine-tuning pipeline** that adapts model outputs based on job descriptions and recruiter requirements, increasing recruiter satisfaction scores to 88%
- **Created keyword extraction and entity recognition systems** tailored for technical skills as per requirement

PROJECTS

Network Diagnostics and Troubleshooting Lab

- Designed and implemented a virtual network lab to simulate real-world support scenarios and analyze connectivity.
- Diagnosed packet loss, DNS resolution errors, and latency problems using **Wireshark**, **traceroute**
- Documented troubleshooting workflows and best practices to streamline issue resolution processes.
- Strengthened understanding of **network fundamentals**, **system diagnostics**, and **technical documentation**.

Reinforcement Learning Framework | Self-Learning Project Python | OpenAI Gym | Deep Learning

- Built custom RL framework implementing Q-learning, DQN, and policy gradient methods from scratch
- Developed interactive visualization tools for real-time training analysis and debugging
- Achieved 95% success rate on multiple benchmark environments through systematic hyperparameter optimization
- Implemented parallel training capabilities reducing training time by 40%

Multi-threaded Web Scraper & API Aggregator | Personal Tool Python | FastAPI

- Designed high-performance concurrent data pipeline handling 10+ API sources simultaneously
- Built production-ready RESTful API layer with rate limiting, caching, and authentication
- Implemented robust error handling with exponential backoff and circuit breaker patterns
- Achieved 99.5% reliability with comprehensive logging and monitoring systems
- Processed 1M+ requests monthly with average response time under 100ms