AVINASH RANJAN

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CAREER OBJECTIVE

Results-driven Full-Stack Developer and AI/ML Engineer with 4+ years of experience designing and developing scalable web applications and AI-powered solutions. Proven expertise in Python, Django, React.js, Large Language Models (LLMs), and cloud infrastructure. Seeking to leverage my technical skills to drive innovation and deliver exceptional results.

TECHNICAL SKILLS

Programming Languages: Python, PHP, JavaScript, jQuery
AI/ML Technologies: Large Language Models (LLMs), Prompt Engineering, NLP, Vector Embeddings, RAG Systems, OpenAI API, AWS Bedrock, Model Training, EDA
Frameworks & Libraries: Django, Laravel, React.js, NumPy, Pandas, Matplotlib
Databases: PostgreSQL, MySQL, Vector Databases (pgvector, Pinecone)
DevOps & Cloud: Docker, Kubernetes, AWS (EC2, S3, Lambda, Bedrock), Git, GitLab, CI/CD
Others: Unit Testing, Agile Methodologies, MS Office Suite

PROFESSIONAL EXPERIENCE

Django Developer | DLAI (DeepLogic AI)

August 2022 - Present

- Lead backend development, architecting complex APIs and AI/ML-driven solutions using Django framework
- Designed and implemented LLM-based document processing systems using OpenAI and AWS Bedrock for intelligent data extraction
- Built vector database solutions using pgvector and Pinecone for semantic search and similarity matching across 2000+ documents
- Developed AI-powered email agents leveraging Large Language Models for automated document processing and key-value extraction
- Implemented RAG (Retrieval-Augmented Generation) pipelines for enhanced document understanding and question-answering systems
- Containerized applications using Docker and orchestrated deployments with Kubernetes for scalable, production-ready infrastructure

Full-Stack Developer | SRV Technology

July 2020 - July 2022

- Developed and maintained full-stack applications using Laravel, Django, and React.js
- Designed RESTful APIs and optimized database schemas for improved performance
- Implemented Docker containers for application deployment and scaling
- Built machine learning models for data analysis and prediction systems

KEY PROJECTS

EPIC Email Agent - AI-Powered Document Processing (DLAI)

- Technologies: Django, LLM, Vector Search, PostgreSQL, OpenAI, AWS Bedrock, RAG
- Developed intelligent email agent using Large Language Models and vector databases to automatically extract key-value pairs from PDFs

Document Similarity Engine

- Technologies: Python, Django, PostgreSQL, HNSWlib, OpenAI/AWS Bedrock, Vector Embeddings
- Built PDF similarity search system using vector embeddings and cosine similarity, processing 2000+ documents

EPIC - AI Document Processing (DLAI)

- Technologies: Django, JavaScript, jQuery, PostgreSQL, HTMX, AI/ML
- Implemented AI-powered system to mark bounding boxes on PDFs, extracting key-value pairs and calculating accuracy

Digital Transformation Centre (DLAI)

- Technologies: Django, PostgreSQL, Docker, Kubernetes
- Developed scalable low-code SaaS platform with Docker containerization and Kubernetes orchestration

Bit_Vault

- Technologies: Python, Django, PostgreSQL, Encryption
- Developed secure file vault system to encode and store files (PDF, Word, CSV, PNG, MP4) in binary format with encryption

Blackbox Logger - Python Package
- Technologies: Python, Django, Flask, PyPI
- Created Python package (blackbox_logger) for logging request/response data with sensitive data masking for secure auditing

Dic SearchBot (DLAI)
- Technologies: Flask, React, Django, API Integration, AI/ML
- Created platform allowing users to search through cloud storage for PDFs and receive results with highlighted keywords via email

House Price Prediction - ML Portal
- Technologies: Jupyter Notebook, Flask, AI/ML, Machine Learning, JavaScript
- Developed data science-driven portal leveraging machine learning algorithms to predict house prices using Washington housing dataset

Lead Management System (SRV)
- Technologies: React.js, JavaScript, jQuery, MySQL, Laravel
- Designed and developed lead management platform for credit card applications from various banks

Japio Data Analysis Platform (SRV)
- Technologies: Django, MySQL, JavaScript, Google Charts, HTML/CSS
- Transformed and visualised data from multiple sources for informed decision-making using Japio's platform

Email SMS Marketing Software (SRV)
- Technologies: Django, Python, HTML, jQuery, MySQL, Twilio, SendGrid
- Built SMS management system with email and SMS marketing capabilities integrated with Twilio and SendGrid

Nxtgems - Education Management System (SRV)
- Technologies: Core PHP, HTML, JavaScript, jQuery, MySQL
- Developed advanced education management system with features like online video classes and mock tests

Fz-awards - News Website (SRV)
- Technologies: Laravel, PHP, HTML/CSS, JavaScript, jQuery, MySQL
- Developed one-page news website with customised admin panel for content management

EDUCATION

Master of Computer Applications (Data Science) - Jain University, Bangalore, India | July 2022 - June 2024
Bachelor of Computer Applications - Techno India Salt Lake, Kolkata, India | July 2017 - June 2020