

AVINASH RANJAN

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CAREER OBJECTIVE

Highly motivated and results-oriented technology professional seeking a challenging role in a dynamic organisation. I aim to leverage my expertise in full-stack development, AI/ML, and leadership to contribute to the growth and success of the company while continuously enhancing my skills.

SKILLS

Programming Languages: Python (OOP, API Development, NumPy, Pandas, Matplotlib), PHP (Core PHP, API Development & Integration), JavaScript, jQuery

AI/ML Expertise: Large Language Models (LLMs), Prompt Engineering, Exploratory Data Analysis (EDA), Model Training, AI/ML-driven Solution Design

Web Development Frameworks: Laravel, Django, React.js

Database Management: MySQL, PostgreSQL, Vector Databases (pgvector, pinecone)

Version Control & Cloud: Git, GitLab, AWS

Others: MS Office Suite (Word, Excel, PowerPoint), Docker, CI/CD pipelines, Unit Testing, Agile Methodologies

EXPERIENCE

SRV Technology - Full-Stack Developer

July 2020 - July 2022

- Developed and maintained full-stack applications using Laravel, Django and React.js
- Worked on API integration, database design, and deployment

DLAI (DeepLogic AI) - Django Developer

August 2022 - Present

- Leading backend development, focusing on developing complex APIs and AI/ML-driven solutions using Django
- Collaborated with cross-functional teams to implement LLM-based document data extraction and conversion features

PROJECTS

EPIC (DLAI):

- Technologies: Django, JavaScript, jQuery, PostgreSQL, HTMX
- Implemented a system to mark bounding boxes on PDFs, extracting key-value pairs from related PDFs and calculating accuracy

EPIC Email Agent (DLAI):

- Technologies: Django, AI/ML, LLM, Vector Search, PostgreSQL
- Developed an AI-powered email agent using LLMs and vector databases to extract key-value pairs from emailed PDFs

Digital Transformation Centre (DLAI):

- Technologies: Django, PostgreSQL
- A low-code SaaS platform which can be used for running tasks using scripts, with additional features to connect channels like email, SFTP, FTP, etc., to receive files or input and can send results to the customer

Bit_Vault

- Technologies: Python, Django, PostgreSQL
- Developed a secure file vault system to encode and store files (PDF, Word, CSV, PNG, MP4) in binary format, with encryption and decoding using a secret key for secure restoration

Blackbox Logger

- Technologies: Python, Django, Flask, PyPI
- Created a Python package (`blackbox_logger`) for logging all request/response data with sensitive data masking, enabling secure auditing of API interactions across applications

Document Similarity Engine

- Technologies: Python, Django, PostgreSQL, HNSWlib, OpenAI/AWS Bedrock
- Implemented a PDF similarity search system using vector embeddings and cosine similarity, enabling retrieval of most relevant documents from a dataset of 2000+ files

Dic SearchBot (DLAI):

- Technologies: Flask, React, Django, API Integration
- Created a platform allowing users to search through cloud storage for PDFs and receive results with highlighted keywords via email

House Price Prediction (SELF):

- Technologies: Jupyter Notebook, Flask, AI/ML, JavaScript
- Developed a data science-driven one-page portal that leverages machine learning algorithms to predict house prices using the Washington housing dataset

Japio Data Analysis project (SRV):

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

Fz-awards (SRV):

- Technologies: Laravel, PHP, HTML/CSS, JavaScript, jQuery, MySQL
- Developed a one-page news website with a customised admin panel for content management

Email SMS Marketing Software (SRV):

- Technologies: Django, Python, HTML, jQuery, MySQL, Twilio, SendGrid
- SMS management system with email and SMS marketing capabilities integrated with Twilio and SendGrid

Nxtgems (SRV):

- Technologies: Core PHP, HTML, JavaScript, jQuery, MySQL
- Developed an advanced education management system with features like online video classes and mock tests

Lead Management (SRV):

- Technologies: React.js, JavaScript, jQuery, MySQL, Laravel
- Designed and developed a lead management platform for credit card applications from various banks

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