DEEPAK B O

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PROFESSIONAL SUMMARY

AI Developer with expertise in Generative AI, NLP, and LLMs (OpenAI, Gemini). Skilled in TensorFlow, PyTorch, and OCR-based text classification, with hands-on experience in computer vision, deep learning, and predictive analytics. Proficient in REST APIs, JWT authentication, and microservices architecture, seamlessly integrating AI with Angular, Spring Boot, and Fast API.

Experienced in cloud deployment (AWS, GCP), CI/CD pipelines (Docker, Kubernetes), and version control (Git, GitHub, GitLab). Passionate about scalable AI models, real-time data processing, and RAG-based retrieval systems to enhance intelligent automation and decision-making. A fast learner and problem-solver, eager to leverage AI-driven innovations for business growth and user experience enhancement.

SKILLS

- **Programming Languages:** C, Python, Java, TypeScript, JavaScript
- **Web Development:** Angular, React, Node.js, HTML, CSS, Django, Fast API, Spring Boot
- **AI & Machine Learning:** Deep Learning, Machine Learning, Computer Vision, NLP, LLM Integration, TensorFlow, PyTorch
- **Backend & APIs:** REST APIs, GraphQL, JWT Authentication, Web Sockets
- **Cloud & Deployment**: AWS, Google Cloud, Docker, Kubernetes, CI/CD Pipelines
- **DevOps & Tools:** Git, GitHub, GitLab, Jenkins, Terraform, Linux, Bash Scripting

WORK EXPIERENCE

Frontend Developer Intern   Relyce Infotech | Aug 2024 – Jan 2025
- Developed a responsive landing page using Angular, enhancing the company's digital presence.
- Built scalable UI components and implemented interactive features like forms, carousels, and animations.
- Integrated API endpoints for real-time data display and dynamic content.
- Optimized performance with lazy loading, efficient routing, and AOT compilation.
- Ensured secure HTTPS deployment and cross-browser compatibility.
- Collaborated with design and backend teams for seamless integration.

AI and NLP Intern   BTech Wallah |July 2023– Sept 2023
- Worked on stock price prediction models, achieving 98% accuracy, and developed NLP-based sentiment analysis with 85% accuracy.
- Contributed to computer vision tasks, improving CIFAR-10 classification to 87% accuracy using CNNs and data augmentation, and achieving 98% accuracy on MNIST with various ML techniques.
- Assisted in developing OCR solutions using Google OCR, optimizing models for text recognition, and structuring extracted data into JSON for integration.
- Applied LLMs for enhancing text extraction and categorization from images and voice inputs.

PROJECTS

Jewel Bankers | [Website Live](#)
- Designed and deployed AI-driven solutions to streamline jewelry and financial workflows.
- Developed OCR and NLP models for accurate text extraction, entity recognition, and data prediction.
- Implemented secure HTTPS encryption, JWT authentication, and cloud deployment on AWS EC2.
- Enhanced customer experience with predictive analytics, business intelligence, and AI-driven automation.

Marine AI
- o Built a Gmail-style Angular UI for intuitive and responsive maritime operations management.
- o Developed a Fast API backend for real-time data processing, REST API integration, and authentication.
- o Integrated Google Gemini to power AI-driven insights, predictive analytics, and automated recommendations.
- o Implemented RAG (Retrieval-Augmented Generation) for enhanced data retrieval, decision-making, and intelligent automation.

EDUCATION

- o **Bachelor of Engineering (B.E) – Computer Science Engineering** Sathyabama University | 2023 – 2027
  CGPA**: 9.22/10**
- o **Higher Secondary Education (Class 12)** Velammal Vidyashram, Mambakkam | 2022 – 2023
  Percentage**: 84%**
- o **Secondary Education (Class 10)** Velammal Vidyashram, Mambakkam | 2019 – 2020
  Percentage**: 85%**

CERTIFICATION AND TRAINING

- o **Full-Stack Development (2024)** – End-to-end web development with modern framework
- o **Java Programming (2024)** – Expertise in object-oriented programming and backend development.
- o **Artificial Intelligence – Teach nook, IIT Roorkee (2024)** – Hands-on experience in AI models and applications.
- o **Python Programming (2023)** – Proficient in core concepts, scripting, and automation.
- o **MySQL Core (2022)** – Strong foundation in database management and SQL queries.