GOKULNATH K R
AIML ENGINEER

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SUMMARY

AI/ML Engineer with around 4 years of experience specializing in AI platform engineering, Large Language Models (LLM), and developing ML models for classification and regression. Proven track record in creating scalable AI solutions and integrating machine learning models to drive business insights and growth. Expert in Python, FastAPI, Django, GCP, and leveraging advanced AI techniques for data-driven decision-making.

WORK EXPERIENCE

Innoboon Technologies PVT LTD | Coimbatore
Senior Software Engineer • Sep 2022 - Present

- **AI Platform Engineer (May 2023 - Present):**
  - **Project Lead for Gen-AI Platform**:
    - Led a team to conceptualize and build a cutting-edge Gen-AI platform focused on generating, reviewing, and classifying requirements.
    - Engineered a responsive chatbot using advanced Large Language Models (LLMs) such as OpenAI, Vicuna, and Alpaca-Lora, enhancing user interaction and experience.
    - Implemented sophisticated prompt engineering techniques to optimize the chatbots responses, ensuring high accuracy and relevance.
  - **Machine Learning Projects**:
    - Developed and deployed ML models for classification and regression, driving business insights and decision-making.
    - Conducted thorough data cleaning and preprocessing to ensure high-quality input for the models, improving prediction accuracy by 15%.
    - Identified and engineered key features from raw data that significantly impacted the prediction outcomes, enhancing model performance by 25%.
    - Worked closely with clients to understand their requirements, provide regular updates, and gather feedback to refine the model and application, leading to a 30% increase in client satisfaction.
  - **API Development and Workflow Automation**:
    - Developed robust APIs using FastAPI to facilitate seamless integration and workflow automation within Airflow DAG.
    - Enhanced the platform's orchestration capabilities, significantly improving task automation and efficiency.
  - **Microservices Architecture**:
    - Designed and implemented a microservices architecture to enhance the platform's scalability, resilience, and performance.
    - Ensured independently deployable services for better application resilience and scalability.
  - **Secure Data Transfer**:
    - Implemented AES 256-bit encryption in API calls to ensure secure data transfer, maintaining high standards of data security and privacy.
- **ETL Developer (Sep 2022 - May 2023):**
  - Automated data processing tasks with Selenium, boosting efficiency and reducing manual workloads.
  - Established robust database connectivity using FastAPI, enhancing data access for decision-making.
  - Developed and maintained ETL processes using PostgreSQL, optimizing data models and queries.
  - Designed, developed, and maintained data models, database structures, and PostgreSQL queries, optimizing and streamlining ETL processes for maximum efficiency.
  - Implemented secure RDP configurations to enable remote data access and management.
  - Developed custom web scraping scripts to extract and process large volumes of data from various sources.

Pinnacle Seven PVT LTD | Coimbatore
Software Engine • Feb 2021 - Sep 2022

- **Python Odoo Developer (Feb 2021 - Sep 2022):**
  - Automated data flow from various APIs into the ERP system using Python, ensuring seamless integration.
  - Customized PDF templates with QWeb, XML and CSS for personalized document generation within the ERP system.
  - Enhanced user experience and tailored functionalities in the ERP system using JavaScript and XML.
  - Extended the ERP system's capabilities to meet unique business requirements through customization using Python's Object-Relational Mapping (ORM).
  - Collaborated with cross-functional teams to gather requirements and implement tailored solutions in the Odoo ERP framework.
  - Stayed updated with the latest Odoo ERP features and updates to leverage new functionalities and enhance the system.

EDUCATION:

- **B.E in Electrical and Electronics Engineering**
  - United Institute of Technology
  - CGPA: 6.59
  - Years: 2016-2020

- **HSC / 12th**
  - Madonna Matric Hr.Sec School
  - Percentage: 70.2%
  - Years: 2014–2016

- **SSLC / 10th**
  - Madonna Matric Hr.Sec School
  - Percentage: 86.2%
  - Years: 2012–2014

TECHNICAL SKILLS:

- **Programming Languages:** Python, C/C++, JavaScript, HTML, CSS
- **Frameworks and Libraries:** Django, Flask, FastAPI, Selenium, TensorFlow
- **AI and Machine Learning:** Large Language Models (LLM), GEN AI, NLP, Transformers
- **ERP Systems:** Odoo
- **Database Management:** PostgreSQL, SQLite 3

TOOLS AND PLATFORMS:

- **Version Control:** GIT (Github, Gitlab, Bit Bucket)
- **Operating Systems:** Linux, Windows
- **Hosting Services:** Heroku, AWS S3
- **Project Management:** JIRA, Notion
- **Cloud Platform:** GCP

PERSONAL PROJECTS:

- **CerebriLoom -** Check out

  Technology used: Gen AI, Python, Streamlit
  - Spearheaded the development of CerebriLoom, integrating cutting-edge data analytics with General AI for cognitive computing.
  - Orchestrated the implementation and enhancement of "MindEase", an empathetic mental well-being assistant, and "QSync", a General AI-powered query assistant supporting text and image-based queries.

- **AI-Translator -** Check out

  Technology used: Python, Flask, HTML, CSS
  - Integrated multilingual support, allowing users to translate content between various languages, thereby enhancing the versatility and usability of the AI Translator.
  - Implemented error handling mechanisms and conducted thorough testing to ensure the reliability and stability of the translation service, resulting in a robust and high-performance application.

- **Google API -** Check out

  Technology used: Python, GCP, OAuth, G-Drive API.
  - Implemented seamless file management using Google API, incorporating functionalities such as file deletion and upload, providing users with efficient control over their data.
  - Developed a robust system to list files and folders, enhancing accessibility and organization. Comprehensive documentation is available in the GitHub README, offering clear guidance on utilising the project's features and integration processes.

CERTIFICATES:

- World Record in hands-on security forensics workshop.
- Certifications from State Level Science Talent Examination.
- Online certification in HTML, C, C++, Android, and Windows from ranksheet.com.
- Course on Data Analysis in Pandas with Python from Udemy.

AREA OF INTEREST:

- Artificial intelligence
- Blockchain
- Ethical Hacking

LANGUAGES:

- Tamil - Read, Write, Speak
- Telugu - Speak
- English - Read, Write, Speak

Social Links:

- Jacobgokul
- Jacobgokul
- Imgokul._
- Tech Controversy

PROFILE:

- **Father** - Raguraman D
- **Mother** - Nirmala R
- **DOB** - May 10 1999
- **Nationality** - Indian