V P MIS AB

Data Scientist at Turing LLC

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SUMMARY

Scientist with extensive experience in developing and optimizing AI models, improving data processing efficiency, and integrating advanced techniques into complex systems. Proficient in full-stack development, project management, and leadership roles. Demonstrates a proven ability to drive impactful results and streamline processes across diverse projects and teams.

EDUCATION

Indian Institute of Technology, Palakkad   **Graduated: May 2024**
Bachelor of Technology in Computer Science and Engineering
Coursework: Algorithms, Data Structures, Machine Learning, Databases, Distributed Systems, High Performance Computing

EXPERIENCE

Turing LLC   **Palo Alto (Hybrid)**
Data Scientist   **May 2024 - Present**

- Developed and optimized large-scale AI models and pipelines, enhancing model accuracy by 12% and reducing training time by 15%.
- Performed in-depth data analysis and statistical modeling to drive insights and improve AI system performance.
- Integrated advanced techniques, such as reinforcement learning and multimodal data processing, into model training and evaluation.
- Designed and implemented custom Python functions, elevating the functionality of large language models (LLMs) for specific business use cases.
- Conducted comprehensive performance evaluations, utilizing real-world data to refine model capabilities.

Siemens   **Bengaluru, Karnataka, India**
Full Stack Developer Intern   **May 2023 - September 2023**

- Improved data processing efficiency by 20% through the development of AI-ML models using TensorFlow and PyTorch.
- Optimized UI/UX for enterprise applications, leading to a 25% increase in user engagement.
- Designed and documented RESTful APIs with OpenAPI and FastAPI, facilitating seamless back-end integration.

Indian Institute of Technology, Palakkad   **Palghat, Kerala, India**
General Secretary of Academic Affairs   **April 2023 - April 2024**

- Represented the student community in academic senate meetings, facilitating communication between students and faculty.
- Organized the Industry Academia Conclave, involving over 50 industry and academia delegates, increasing event participation by 30%.

.NET Core Project Manager   **August 2023 - December 2023**

- Led the development of the MessengerApp, integrating real-time messaging and collaboration features to enhance user experience.

Project Intern as System Admin for HPC   **December 2022 - April 2023**

- Managed the HPC cluster, implementing job schedulers like PBS and SLURM, improving computational efficiency by 20%.

PROJECTS

Formal Verification of a Redundancy Management Logic   **August 2023 - May 2024**
IIT Palakkad

- Modeled and verified redundancy management logic for an avionics system using the Coq theorem prover.
- Successfully proved the correctness and fault tolerance of a Triple Modular Redundant (TMR) system based on specifications provided by ISRO.
- Extended the system to support n-modular redundancy, enhancing scalability and reliability.
- Collaborated with ISRO engineers and faculty to ensure the accuracy of the formal specifications.

Text-to-Face Image Generation   **January 2024 - April 2024**
Freelancing

- Developed a GAN-based model using StyleGAN3 to generate high-resolution facial images, achieving a fidelity score of 90%.
- Created a dataset of 5,000+ facial images, improving model performance by 15%.

TECHNICAL SKILLS

Programming Languages	C, C++, C#, Python, Typescript
Frameworks	Angular, React, FastAPI, .NET Framework
Tools	Docker, Kubernetes, Elasticsearch, PostgreSQL
Models	Generative Adversarial Networks (GANs), Neural Networks, Reinforcement Learning

LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

Industry Academia Conclave Coordinator   **April 2022 - August 2022**
Indian Institute of Technology, Palakkad

- Coordinated academic and industry interactions, increasing event participation by 25%.

Project Manager - .NET Core MessengerApp   **August 2023 - December 2023**
IIT Palakkad

- Led the project development, integrating features like real-time messaging and file sharing.

CERTIFICATIONS

- Advanced Data Science with Python - Coursera
- Machine Learning Specialization - Coursera
- ML, Data Engineering badges - Google cloud platform