

Senior AI Development Engineer

OPPORTUNITY

Ainira Industries is currently seeking applicants for Senior AI Engineer position to join our growing team in Melbourne, Australia. Your expertise in machine learning, deep learning, and data analysis will be pivotal in creating intelligent and transformative AI applications for our ground-breaking AI Semiconductors flagship projects in Intelligent Vehicles, Space and Defence, Sustainability, Energy, and Infrastructure.

JOB DESCRIPTION

The role requires a broad experience in the semiconductor industry, designing and developing machine learning systems and AI products, implementing appropriate ML algorithms, and conducting experiments. Collaborating closely with cross-functional teams, you will be an essential part of every stage of AI development, from conceptualisation and design to rigorous testing and successful deployment, ensuring our AI projects drive innovation and provide value in the rapidly evolving field of Artificial Intelligence.

Reporting to the Director of AI Engineering, the Senior AI Engineer will be at the forefront of technological innovation, leveraging advanced knowledge of AI, machine learning, and deep learning to design and implement AI models and systems. You will be instrumental in driving the development and deployment of AI technologies within the organisation, contributing to business performance and innovation.

RESPONSIBILITIES

- Work with data to create models, perform statistical analysis, train and retrain models to optimise performance, and manage the data flow and infrastructure for effective AI deployment
- Build efficient self-learning applications and contribute to advancements in artificial intelligence; apply deep learning techniques to interpret complex data patterns and make predictions
- Designing, developing, and deploying sophisticated machine learning models, as well as refining and updating existing systems ensuring the quality, accuracy, and reliability of AI models and systems
- Developing and implementing complex algorithms to solve business problems, automate processes, improve decision-making, provide insights, and enhance system performance
- Optimise AI models for performance, scalability, and efficiency, leveraging cloud-based resources and distributed computing frameworks
- Collaborate with cross-functional teams, including data scientists and software engineers, to integrate AI solutions into existing products and services
- Analyse large and complex data sets to extract insights and inform AI model development, and integrate these models and systems into existing business processes and IT infrastructure
- Actively participate in code reviews and collaborative problem-solving sessions, contributing to the improvement of AI solutions and development processes
- Troubleshoot and resolve AI-related issues, ensuring the reliability and accuracy of AI-driven applications

- Stay up to date with the latest trends and advancements in AI and ML technologies, and apply this knowledge to drive innovation within the organisation and our product solutions
- Collaborating with stakeholders, data scientists, and other team members to understand requirements and deliver AI solutions
- Stay updated on the latest AI and machine learning advancements, research papers, and tools, incorporating them into AI development projects
- Communicate proactively with team members and product stakeholders in a highly agile environment

SKILLS and ABILITIES

- BSc/MSc degree in Computer Science, Machine Learning, Artificial Intelligence, or Engineering field
- 5+ years of experience designing and implementing AI solutions with strong programming skills
- Proven track record as an AI Engineer, with portfolio examples of successful ML and/or AI projects
- Proficiency in programming languages commonly used in AI, such as Python, R, or Java, and experience with ML frameworks like TensorFlow or PyTorch
- Familiarity with data pre-processing, feature engineering, and model evaluation techniques essential for machine learning projects
- Strong understanding of various machine learning algorithms, including supervised and unsupervised learning, reinforcement learning, and neural networks
- Hands-on experience with Natural Language Processing (NLP), computer vision, or other AI subfields
- Solid grasp of mathematical concepts relevant to AI, such as linear algebra, calculus, and statistics
- Experience with version control systems like Git, enabling effective collaboration and code management
- Strong analytical and problem-solving skills, crucial for algorithm development and data analysis
- Demonstrated high degree of initiative, attention to detail, and willingness to learn and adapt quickly
- Exceptional communication skills, enabling effective collaboration with both technical teams and business stakeholders to translate AI capabilities into business value
- Domain knowledge in Compute Microprocessors and Multiprocessor SoC design, AI Server/Data Centre, Semiconductor and AI technologies, and their integration in a manufacturing setup seen favourably

COMPENSATION

The Company offers a competitive compensation and benefits package.

APPLY

Click "Apply" below or use form in the Contact section – quote the reference number HR-AIS-0010. Only the shortlisted candidates will be contacted. Thank you for your interest.

Recruitment agencies, please note that no agency candidates will be accepted.