

# AASHIMA JAISWAL

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## 💡 SUMMARY

- AI/ML Engineer with 1.5+ years of experience specializing in agentic systems, LLMs, and production GenAI workflows. Proven track record of building multi-agent architectures and deploying scalable AI solutions.
- Cross-functional technical leader experienced in stakeholder management, infrastructure coordination, and presenting AI solutions to C-level executives.

## 🔧 SKILLS

- AI Agents & LLMs:** Multi-agent systems, LangChain, CrewAI, Atomic Agents, agent orchestration, memory management, Azure OpenAI, prompt engineering, autonomous workflows
- GenAI & Image Models:** Stable Diffusion, Flux models, DALL-E, ComfyUI workflows, Hugging Face, model fine-tuning, LoRA, SDXL
- ML & NLP:** TensorFlow, PyTorch, BERT transformers, ensemble methods, feature engineering, supervised learning, deep learning classifiers
- Programming & Infrastructure:** Python, FastAPI, Docker, Azure, Git, Bash scripting, microservices, containerization, HPC
- Data & Visualization:** Pandas, NumPy, Scikit-learn, Tableau, Streamlit, Gradio, ETL pipelines, statistical analysis
- Collaboration Tools:** JIRA, Confluence, stakeholder reporting, cross-functional coordination, technical presentations

## 🏢 PROFESSIONAL EXPERIENCE

### HEINEKEN

Mar 2025 – Present

AI Engineer Intern, Global GenAI Lab

Singapore

- Co-built comprehensive AI marketing product** using LLMs (Azure OpenAI), multi-agent systems (LangChain, CrewAI, Atomic Agents) and image generation models (Flux, Stable Diffusion via ComfyUI, Hugging Face) with fine-tuning on Heineken-branded datasets
- Designed agentic system architecture from ground-up** including agent orchestration, custom tools, memory management, and observability logging for autonomous AI workflows within the marketing product
- Developed scalable GenAI infrastructure** converting Python workflows into FastAPI microservices, containerizing with Docker, and implementing input/output validation using Pydantic and Instructor
- Led cross-functional collaboration and infrastructure acquisition** as technical bridge between Product/Engineering teams, managing JIRA task allocation, presenting feasibility studies to APAC CIO and Global HQ stakeholders
- Delivered technical prototypes using Gradio and Streamlit** to showcase GenAI API functionality, coordinating with Senior AI Engineers, Backend/Frontend teams, and DevOps on integration requirements

### CSIRO (Commonwealth Scientific and Industrial Research Organisation)

Nov 2022 – Feb 2023

ML Engineer Intern

Australia

- Developed hybrid cyberbullying detection ML model** using Python, TensorFlow, PyTorch, and context-aware BERT transformers, achieving 10-15% performance improvement over benchmark models through ensemble methods on 330k+ social media records
- Built automated ML pipeline** processing multi-platform datasets with NumPy, pandas, scikit-learn, implementing feature engineering workflows for sentiment analysis, tone detection, and sarcasm filtering
- Deployed scalable ML experiments on Pawsey Supercomputing Centre (Topaz) HPC infrastructure** using custom Bash scripts, implementing distributed training workflows for hyperparameter optimization and cross-validation
- Engineered production-ready ML solution** integrating multiple classification algorithms with context-aware word embeddings and feature engineering pipelines for real-time cyberbullying detection systems

### IIT Bombay (Indian Institute of Technology)

Apr 2020 – Jul 2020

Research Analyst Intern

India

- Built COVID-19 economic analysis pipeline** using Python APIs to collect retail payment and epidemiological data, performing statistical analysis to study lockdown impacts on transaction volumes across Indian states
- Published research findings** on COVID-19 economic impact in peer-reviewed journal, contributing data collection, statistical analysis, and visualization components to multi-researcher collaborative study [Read here]

## 🎓 EDUCATION

### Nanyang Technological University

Aug 2024 – Sept 2025

MSc. Business Analytics

Singapore

### University of Melbourne

Sep 2020 – Dec 2023

BSc. Computer Science

Australia