

# Anshuman Vikram Singh

+91 817 585 8678

anshuman.vikram@gmail.com

Netherlands

avsingh.in

in anshuman-vikram-singh

## PROFESSIONAL SUMMARY

Research-driven ML Leader

Architect with proven innovation track record in AI/ML systems, holding 10 patents (4 issued, 6 pending) in identity verification. Specializes in translating breakthrough research into production systems, with end-to-end ownership from research ideation to product deployment. Led cross-functional ML teams and large-scale operations while driving technical innovation that delivers measurable business impact.

## TECHNICAL SKILLS

**Languages:** Python, Scala, Java, SQL

**GenAI/LLMs:** OpenAI GPT, Anthropic Claude, LangChain, LangGraph, RAG, Fine-tuning, Prompt Engineering

**Agentic AI:** Multi-agent systems, Tool calling, ReAct, Agent frameworks, MCP servers, Autonomous workflows

**ML/AI:** PyTorch, TensorFlow, Transformers, MLflow, Hugging Face, NLP, Computer Vision

**Cloud/Infra:** AWS, Docker, Kubernetes, Apache Spark, Kafka

**Data/Stores:** PostgreSQL, MongoDB, Redis, Elasticsearch, Vector DBs (Pinecone, Chroma), Graph DBs

**Research/Eval:** A/B Testing, Benchmarking, Performance Evaluation, Research Methodologies, Technical Writing

**MLOps/Tools:** Git, Jenkins, Airflow, Grafana, Datadog, Agile/Scrum, SAFe

## PATENTS & RESEARCH INNOVATION

- 10 Patents Portfolio:** Inventor/co-author on breakthrough innovations in identity verification, computer vision, and AI-driven usability classification (4 issued, 6 pending).
- Research-to-Product Translation:** Successfully translated novel AI research into production systems serving millions of users, with patented techniques integrated into core product offerings.
- Innovation Leadership:** Led research initiatives that resulted in measurable improvements in automation rates, accuracy metrics, and user experience across multiple AI/ML products.

## PROFESSIONAL EXPERIENCE

### Inverid B.V.

Enschede, Netherlands

*Lead Machine Learning Engineer & Architect*

Nov 2024 – Present

- Lead research and development of next-generation multi-modal AI systems combining OCR, LLMs, and agentic workflows for identity document processing; evaluate and integrate cutting-edge GenAI techniques.
- Partner with Product and Engineering to translate breakthrough research opportunities into measurable business outcomes, designing evaluation frameworks for agent performance and end-to-end system capabilities.
- Own AI research roadmap from ideation to production, building comprehensive evaluation systems for LLM fine-tuning results, agent performance, and production quality monitoring.

### Surya Sankul

India

*Managing Director (Sabbatical - Entrepreneurial Venture)*

Apr 2023 – Oct 2024

- Founded and led a diversified portfolio: cloud kitchen (Namaste Wok), fuel retail (Surya Filling Station, JIO BP), and an FPO for smallholder farmers (Rashmika Rathee).
- Introduced AI-driven analytics for demand forecasting, inventory optimization, and precision-farming pilots; set up a charitable trust arm (Surya Foundations).

### JUMIO GmbH

Vienna, Austria

*Senior Team Lead Machine Learning / Senior Manager, MLT*

May 2022 – Mar 2023

- Led a 20-person research and engineering org across Data Extraction, Usability, Fraud Detection, and Biometrics; drove automation rates from 0% to 85% across multiple AI systems, resulting in breakthrough innovations and multiple patent applications.
- Directed global annotation operations (350 experts) to deliver high-quality labeled data for training/evaluation; invented novel quality control methodologies that improved data throughput by 40%.
- Collaborated with research teams to identify and validate cutting-edge techniques in computer vision, NLP, fraud detection, and biometric authentication, translating academic research into production-ready systems.

**JUMIO GmbH***Machine Learning Team Lead / Senior Manager, MLT***Vienna, Austria***Mar 2021 – May 2022*

- Owned research roadmap and delivery for Data Extraction pipeline improvements; invented and prototyped novel detection/classification techniques that resulted in 25% reduction in manual review.
- Established evaluation frameworks for measuring model performance and business impact, creating systematic approaches to validate research innovations before production deployment.

**JUMIO GmbH***Interim Product Owner***Vienna, Austria***Aug 2020 – Feb 2022*

- Aligned stakeholders, prioritized backlog, and ran agile ceremonies (dailies, reviews, planning); handled client escalations with Customer Success and drove fixes to production.

**JUMIO GmbH***Machine Learning Engineer / Manager, MLT***Vienna, Austria***Jan 2020 – Mar 2021*

- Researched, engineered and deployed breakthrough AI models for data extraction, fraud detection, biometric verification, and usability assessment.
- Architected scalable ML training pipelines and evaluation systems that became the foundation for multiple research initiatives and patent-worthy innovations.

**JUMIO GmbH***AI Engineer***Vienna, Austria***Jul 2018 – Dec 2019*

- Contributed across the end-to-end ML lifecycle for multiple projects; conducted Scala-based load tests of ML services.

**Hecate Networks***Deep Learning Tech Consultant***Rochester, NY, USA***Nov 2016 – Jul 2018*

- Built an MVP for face detection and emotion recognition on retail CCTV streams; delivered actionable in-store analytics.

**RadSupport Inc.***Deep Learning Software Developer***Oakland, CA, USA***Feb 2016 – Jul 2016*

- Developed tumor-detection pipeline for mammograms; implemented DICOM pre/post-processing and trained models based on published methods.

**SemanticBits LLC.***Programmer / Analyst***Herndon, VA, USA***Oct 2015 – Feb 2016*

- Software development in a healthcare data environment.

**Adarza BioSystems Inc.***Image Processing Intern***Rochester, NY, USA***Jun 2014 – Aug 2014*

- Image-processing R&D for biosensor platforms.

**EDUCATION****Rochester Institute of Technology***MS in Computer Science***Rochester, NY, USA***Aug 2013 – May 2015***JSS Academy of Technical Education***BTech in Computer Science and Engineering***Noida, UP, India***Sep 2009 – Jun 2013***CERTIFICATIONS & AWARDS**

- Leading SAFe (Scaled Agile).
- Deep Learning Specialization — DeepLearning.ai (Coursera).
- Game Theory — Stanford University (Coursera).
- Best Innovator in Artificial Intelligence — Kalam Center (2018).
- Innovator of the Year — IT UPVAN (2017).
- Keynote Speaker — Dr. APJ Abdul Kalam Technical University.
- Trustee — Surya Foundations Charitable Trust.