Adi Singh

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EDUCATION

B.E. Robotics & Cybernetics, NTNU (2023–2026); Class Rep: Relevant classstructure, advocacy.

RELEVANT COURSES

Graduate and PhD-level: Computer Vision and Deep Learning, Methods in Artificial Intelligence, Advanced Parallel Computing, Network Programming and Security.
Undergraduate-level: Engineering Statistics, Linear Algebra, Object-Oriented Programming, Control Theory.

SKILLS

Languages: Python, JavaScript, TypeScript, C++, SQL
Frameworks: PyTorch, Matplotlib, Pandas, React/React Native, Node.js, FastAPI
Tech: MATLAB, Simulink, Git, Azure, HPC, Docker, CI/CD, MCP
Native Languages: English, Norwegian

WORK EXPERIENCE

ML Engineer, DeepTactics, Cogito NTNU   Jan'25–Present
- Developed MuZero RL model; CI/CD, Docker; improved efficiency by 30%.
- Integrated advanced algorithms inspired by AlphaZero.

Lead Account Manager, Orbit NTNU   Sep'23–Nov'24
- Managed technical communications; secured NOK 250k funds (+40%).
- Led collaboration between stakeholders and development teams.

ML Engineer, Cogito NTNU   Aug'23–Jan'24
- Built neural matching algorithm; achieved 97% accuracy.
- Used TensorFlow and PyTorch extensively.

Software Erasmus+, EU Commission   Aug'21–Oct'21
- Designed software architecture for educational robot touring EU.
- Delivered comprehensive system blueprint.

PROJECTS & RESEARCH

Compute Efficiency Research | NTNU HPC-Lab   Jan'25–Present
- Researching high-performance computing for optimizing matrix multiplication operations on IDUN HPC cluster.

AlphaZero-MCTS Project   Dec'25–Feb'25
- Developed an AlphaZero-inspired RL agent using Monte Carlo Tree Search (MCTS).

LlamaChat | Buildspace SF   Jun'24–Aug'24
- Developed AI messaging app; attracted 500+ users in launch week.

MIT Biogen Lab   Jun'23–Aug'23
- Hydrocephalus research; achieved 300% improvement in treatment efficiency.

CERTIFICATIONS

2025: Machine Learning Applications (University of Michigan), C++ for Experienced Programmers (Codecademy).
2024: Full Stack Fundamentals (Codecademy), AI for All GenAI (NVIDIA Learning).
2023: AI For Everyone (DeepLearning.AI), CS50: Introduction to Programming with Python (Harvard University).

EXTRACURRICULARS & ACHIEVEMENTS

ML content creator (15K+), participated in 16+ hackathons (Google, Meta); High Performance Computing teacher.
Awards: 1st Jane Street Estimathon '24, 2nd Start Code '24, Finalist TripleTex '24, 4th Meta Hackathon '25

REFERENCES

Available upon request.