Tanmay Nandanikar

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EDUCATION

Wroclaw University of Technology (Oct 2023 - Jul 2025)
MSc, Computer Science

Kielce University of Technology (Sep 2019 - Feb 2023)
BSc , Computer Science 4.3/5

CERTIFICATIONS

Big Data & Analytics (May 2022)
Cisco Networking Academy
Link to certificate

PCAP: Programming Essentials in Python (Feb 2022)
OpenEDG Python Institute
Link to certificate

Network Security (Jan 2023)
Cisco Networking Academy
Link to certificate

SKILLS

Technical Skills At Professional Proficiency

Data analysis/mining/visualization, and Machine Learning techniques | OOP | Python (NumPy, Pandas, sk-learn, PyTorch, TensorFlow, Matplotlib) | SQL (MySQL, Oracle SQL) | Version Control, Git | Java, C++, Neo4j, React

EXPERIENCE

Balaji Distributors (Jul 2022 - Aug 2022)
Software Development Intern

- **Inventory Management System (React):** reduced monthly workload by up to 30 hours, efficiently tracking stock events and availability.
- **Automated Email Response System (Python):** responds to online price related queries. Projected to increase monthly prospects by 20%.
- **Responsive Website (tailwindCSS):** integrated with **Google Search Console** to find find high conversion target keywords for search-based ads. Projected to reduce ad spend by 15%.
- **Java CLI Applet:** to execute a query, extract the result as CSV, generate a checksum, compress, and upload to cloud using SFTP. Automated routine tasks, reducing monthly workload by up to 20 hours.

RELEVANT PROJECTS

Classifier for Non-Linear Data (with complex visualizations)
Developed in Tensorflow, visualization for individual neuron outputs, NN structures, etc.
https://www.huggingface.co/spaces/sprices/Gradio-NN-Visualizer
Interactive visual demo available on the link above.
https://github.com/sprices-exist/MLP-classifier/

Retinal Disease Classification
Identifying Retinal Diseases based on OCT scans (96% accuracy, made using FastAI in Python)
https://github.com/sprices-exist/Retinal-Disease-Classification

K-Parser
Bookmark recovery application with over 5000 downloads (Python, BeautifulSoup4, cxFreeze)
https://github.com/sprices-exist/KissParser

S&P 500 Stock Analysis
Analysis and visualization of S&P 500 stocks (NumPy, Pandas, Matplotlib, Seaborn, and Plotly)
https://github.com/sprices-exist/Financial-Analysis-of-S-P500-stocks

UNDERGRADUATE THESIS

Reinforement Learning in Python
(PyTorch, Pygame, Python, Matplotlib, NumPy)
Developed a Snake AI using PyTorch to implement reinforcement learning techniques. Achieved an AI that can beat the median human score across three consecutive games after 125-130 iterations.
Link to thesis