

Avani Sharma

Machine Learning Engineer

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Machine learning engineer with 3+ years of experience implementing statistical machine learning solutions and demand forecasting models to improve forecast accuracy. Key achievement: optimized personalization algorithms for 25+ applications with 372K users.

RELEVANT WORK EXPERIENCE

PayPal, Mumbai

2023 – Present

Machine Learning Engineer

- Tracked the health of 15+ robots using React/Redux with NodeJS backend and Python scripts, which collected 100TB of data from its sensors.
- Designed a deep learning model to detect and classify anomalies in the manufacturing process of 34+ industrial robots, reducing 83% of their monthly downtime.
- Researched TensorFlow LSTM networks for speech recognition, OpenCV object tracking algorithms, and 11+ new technologies; enhanced 74% of a dancing robot's performance.
- Conceived and created a machine learning algorithm that detects deviant behavior in robots using SIFT, HOG, and 20+ other computer vision methods.

GrowAI, Bengaluru

2021 – 2023

Automation Engineer

- Enhanced an automatic data processing machine performance by analyzing, testing, and debugging 2500+ lines of code.
- Developed work instructions and algorithms for 30+ newly installed hardware, converting Growthsi production floor from manual to 100% computer-controlled.
- Established computerized process efficiency standards and implemented procedural controls; reduced overhead for 300+ clients and increased their annual sales profits by \$150K YoY.
- Created a computer program to monitor the performance of 45+ robotic arms and coordinate their functions based on the diagnostics from the computer.

EDUCATION

Indian Institute of Technology, Mumbai

2016 - 2020

Bachelor of Science — Electrical Engineering and Computer Science

- Specialized in Machine Learning and Cognitive Computing
- CGPA - 8.5

SKILLS

Programming: Python, Java, C++, R, MATLAB, Julia

Machine Learning: TensorFlow, PyTorch, Keras, Scikit-learn, OpenCV

Big Data Technologies: Hadoop, Spark, Hive, Pig, Tableau

Cloud Technologies: AWS, GCP, Azure, Docker, Kubernetes