Arman Bishnoi

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EDUCATION

Thapar Institute of Engineering And Technology   September 2021 - June 2025
Bachelor of Engineering in Computer Science (AI)   *Patiala, Punjab*

Experience

Amazon (Diamonds Program)   January 2025 – June 2025
SDE Intern   *Bangalore, India*
– Developed a widget *"Your Diamonds"* in the Amazon Mobile App for iOS/Android customers, visible under the 'You' tab.
– Built a WhatsApp notification system for the Diamonds Program, enabling users to receive messages for every Diamonds credit event.
– Created an internal React-Native web app tool for team use, enabling streamlined creation and management of product promotions.

ThapaSat (ELC)   June 2023 - July 2023
Summer Intern   *Patiala, Punjab*
– Over 50 hours of satellite audio data were collected, capturing various frequencies used in weather transmissions.
– A signal processing algorithm was developed to convert over 100 audio files into images, achieving a 95% success rate in producing clear weather maps.
– Backend Python code was created for detecting cyclones from satellite images, processing 60 images per minute with 90% accuracy in predicting cyclonic paths up to 36 hours in advance.

PROJECTS

AWS Inventory System — Developer   Aug 2024 – Nov 2024
– Built serverless AWS Lambda solution to automate data retrieval from 20 AWS services, processing 1500+ daily records with EventBridge scheduling and achieving 100% automation
– Optimized data storage using 20 DynamoDB tables with 5ms average latency, supporting 50 concurrent executions while maintaining high availability and scalability
– Reduced manual audit time by 80% and improved data accuracy by 95% through automated resource tracking and management system

Placed — Python, FastAPI, MongoDB, JWT, React-Native   Code
– Built job aggregation platform using Flask with interactive dashboard featuring Plotly visualizations, multi-filter job search (experience level, skills), and automated data refresh capabilities through scheduled background processes
– Developed machine learning pipeline using scikit-learn RandomForestClassifier and TF-IDF vectorization to automatically classify job experience levels and extract technical skills from job descriptions with 1000+ feature extraction
– Implemented scalable job scraping and analysis system with modular architecture including ML-enhanced NLP processing, database storage layer, and RESTful API endpoints for real-time job data updates

Landmark Detection — Python, PyTorch, Computer Vision   Code
– Built a deep learning model to detect facial landmarks using PyTorch and the 300-W dataset.
– Preprocessed input data with OpenCV, augmented training data, and used a custom CNN achieving high accuracy in keypoint localization.
– Evaluated model performance using Euclidean distance between predicted and ground truth landmarks and visualized results using Matplotlib.

Interactive Sales Dashboard for Retail Analytics — Power BI   Code
– An interactive dashboard analyzing retail sales trends, inventory, and profitability metrics was developed.
– Power BI was connected to a SQL database to enable real-time updates and visualization of over 10 thousand+ data points.
– Actionable insights were provided, leading to a 25% improvement in inventory turnover rates and increased accuracy in sales forecasting.

SKILLS

Programming Languages: Python, C++, SQL, HTML, CSS
Libraries and Tools: Scikit-learn, Pandas, NumPy, PyTorch, Power BI, AWS (S3, EC2, Lambda, DynamoDB), MongoDB
Concepts: OOPs, Machine Learning, Computer Vision, Data Analysis, ETL Pipelines, Serverless Architecture, Cloud Automation
Problem-Solving: Debugging, Optimizing Performance, Algorithm Design
Soft Skills: Collaboration, Communication, Analytical Thinking