

PUNIT KUMAR

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Summary

Driven to leverage advanced proficiency in machine learning and programming to craft innovative solutions. Eager to contribute dynamic skills in software technologies and lead high-impact projects, fostering a culture of continuous learning and excellence in a forward-thinking organization.

Education

Indian Institute of Technology Madras

B.S. in Data Science and Applications - GPA: 8.72/10

Chennai, Tamil Nadu

Expected: Aug 2026

Institute of Computer Science & Technology

Bachelors of Computer Applications - Percentage: 71.5%

Varanasi, Uttar Pradesh

Sep 2024

Work Experience

Indian Institute of Technology, Dharwad

Python Developer

Dharwad, Karnataka

Oct 2025 - Dec 2025

- Engineered a high-performance Python simulation by translating complex mathematical formulas and legacy MATLAB algorithms into efficient, vectorized NumPy code.
- Applied advanced signal processing techniques to model, transform, and analyze complex, high-volume time-series data within a large-scale system simulation.
- Demonstrated advanced algorithmic proficiency by translating abstract mathematical specifications into a functional, data-intensive Python model from the ground up.

Projects

System Threat Forecaster (Classification)

March 2025

Python, Scikit-learn, Numpy, Pandas, Matplotlib, XGBoost, LightGBM

[Check it here](#)

- Developed a machine learning-based forecasting model to predict potential system security threats using telemetry data.
- Implemented ensemble methods combining XGBoost, LightGBM, and RandomForest models with advanced hyperparameter tuning and cross-validation strategies.
- Applied classification and anomaly detection techniques to identify suspicious patterns and predict potential cyber risks.
- Designed visual dashboards (Matplotlib/Seaborn) to present predictive insights, enabling proactive threat mitigation strategies.
- Evaluated models using metrics like accuracy, precision, recall, and F1-score, with LightGBM achieving the best results.

HireHero - GenAI-Assisted HR Management Platform

Nov 2024

Gemini API, Grok API, SpaCy, Python, LangChain, HuggingFace, Prompt Template

[Check it here](#)

- Orchestrated Gemini API with local SpaCy models to automate JD drafting and complex resume screening processes.
- Engineered explainable match scores using side-by-side keyword analysis to justify candidate shortlisting decisions to hiring managers effectively.
- Implemented a GenAI screener ranking top ten candidates within two minutes via automated resume-JD matching.
- Developed a conversational AI copilot using custom prompt templates to generate structured interview guides instantly.
- Integrated AI mock interviews providing real-time feedback on confidence levels and automated speech-to-text feedback transcripts.

Technical Skills

Programming Languages: Python(DSA), SQL, C, C++, Java

Data Analysis: Deep Exploratory Data Analysis, Statistical Modeling, Data Pipelines, Data Preprocessing

Machine Learning: Supervised & Unsupervised Learning, Classification, Regression, Clustering

Deep Learning: ANN, CNN, RNN, LSTM, Transformers

AI/ML Libraries: NumPy, Pandas, Scikit-learn, PyTorch, TensorFlow, PyTorch, LangChain

Natural Language Processing : Vectorization, Embedding, Categorization, SpaCy, Vector Databases

GenAI & LLM Development: Prompt Engineering, LangChain, RAG Pipelines, GenAI Integration

Tools & Platforms: Jupyter, Git, Docker, Matplotlib, Seaborn, Linux, AWS(basic)

Soft Skills

Problem Solving, Leadership, Teamwork, Analytical Communication, Time Management, Adaptability