

SHUBHAM CHAVANKE

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Education

Indian Institute of Technology Patna (IIT Patna)

Bachelor of Science - BSc (Honours) | CGPA: 8.03/10
Computer Science and Data Analytics

Aug'2023 - Jun'2026

Patna, Bihar

AISSMS Institute of Information Technology

Bachelor of Technology - BTech | CGPA: 7.11/10
Major: Electrical Engineering, Minor: Artificial Intelligence and Data Science

Nov'2022 - Jun'2026

Pune, Maharashtra

Technical Skills

Programming Languages: Python, C++, SQL

Frameworks/Libraries: Pandas, Numpy, Matplotlib, scikit-learn, TensorFlow, Keras, PyTorch

Databases: MySQL, PostgreSQL, MongoDB

Developer Tools: VS Code, Jupyter Notebook, MATLAB, GitHub, Linux, Docker, AWS, GCP, Tableau

Web Technologies: HTML, CSS, JavaScript, Django

Experience

Infosys

Oct'2024 - Dec'2024

Artificial Intelligence Intern

Pune, Maharashtra

- Worked in a team of 12 members, designing and implementing AI technology for autonomous driving applications.
- Developed a CNN-based autonomous driving model, improving detection accuracy by 25% using Cityscapes Dataset.
- Utilized data augmentation and preprocessing to enhance model robustness, improving the training efficiency by 40%.
- Elevated the mean Intersection over Union (IoU) to 0.92 through hyperparameter tuning using TensorFlow and Keras.

Projects

Stock Market Feature Construction for Price Analytics | Python, TensorFlow, Seaborn, XGBoost

Nov'2024

- Developed a GAN-based model to construct features from raw stock data, boosting prediction accuracy by about 20%.
- Trained on 96 Nasdaq stocks leveraging historical price and technical indicators, achieving 70% prediction accuracy.
- Implemented XGBoost on extracted features, achieving 85% precision in identifying stocks with 15%+ gain over 10 days.

Predictive Maintenance System for Industrial Facilities | Python, TensorFlow, Keras

Apr'2024

- Engineered a system to predict machinery failures and schedule maintenance, cutting downtime by 30 hours monthly.
- Leveraged both historical and real-time data to spot 12 patterns and potential anomalies in machinery performance.
- Built a Streamlit dashboard, providing real-time data insights and reducing maintenance alert response time by 40%.

Emotion-Based Music Streaming and Curation System | Python, OpenCV, PyTorch

Apr'2024

- Devised a system that recommends music based on users' facial expressions, which increases playlist interaction by 40%.
- Integrated real-time emotion detection system recognizing 5 distinct emotions using computer vision and deep learning.
- Formulated a recommendation algorithm adjusting playlists based on emotions, personalizing with 200+ playlists.

ResumeRadar - Resume Analysis and Assessment Tool | Python, SpaCy, NLTK, Streamlit

Sep'2023

- Designed a tool that analyzes resumes, offering scores and personalized suggestions to boost selection chances by 50%.
- Utilized NLP and LLM techniques to extract resume details, leading to a 65% increase in recommendation accuracy.
- Created a web app using Streamlit to provide real-time feedback and suggestions, enriching user engagement by 30%.

Relevant Coursework

- Data Structures and Algorithms
- Machine Learning Techniques
- Software Development & Operations
- Design and Analysis of Algorithms
- Probability and Statistical Analysis
- Linear Algebra and ODE
- Object-Oriented Programming
- Database Management System
- Computer Networks & Organization

Leadership / Extracurricular

UG Technology Club

Mar'2024 - Present

Executive Team Member

IIT Patna

- Organized 10+ events, including workshops and hackathons, engaging 500+ students and strengthening industry ties.
- Mentored junior members, driving a 30% increase in active participation and fostering collaborative knowledge transfer.

Electrical Engineering Student's Association

Aug'2023 - Jul'2024

Technical Executive Committee Member

AISSMS IOIT Pune

- Spearheaded technical initiatives and coordinated with 20+ volunteers to ensure the success of the ENTHUSIA fest.
- Facilitated a series of workshops for high school students at SSPM Day School, Pune, in collaboration with the REC.