

Amulya Parashar

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SUMMARY

An efficient programmer with expertise in **C, Java, Python, HTML, CSS** and **JavaScript**. MySkill Set extends to **Data Structure and Algorithms (DSA) , Object Oriented Principles(OOPs), Data Analytics, Machine Learning, Computer Vision, Big Data Architecture** and **Linux Bash Scripting**, showcasing exceptional coding capabilities. I also have background experience in DataBase Management and can effectively work with **MySQL** or **Oracle** as per requirement

EDUCATION

Manipal Institute of Technology	Manipal, Karnataka	<i>B.Tech Computer Science AI&ML Expected Graduation, May 2026</i>
<ul style="list-style-type: none">○ Concentrations: Data Analytics, Machine Learning & Computer Vision○ Related Coursework: Data Structures & Algorithms, Objects & Design, Computer Organization & Programming, Combinatorics, Machine Learning, Artificial Intelligence, Object-Oriented Programming, Statistics & Applications		

EXPERIENCE

Lighthouse InfoSystems		Nagpur, Maharashtra
<i>Java Developer INTERN</i>	<i>May 2025 – July 2025</i>	<i>On-Site</i>
<ul style="list-style-type: none">• Implemented UI Changes for existing Java Frontend for ERP System. Added Manager and Inventory level changes.• Contributed to the system's ability to handle errors in a better way and establish a chain of command for easy monitoring and maintenance .		
Innovura Technologies Pvt. Ltd.		Ahmedabad, Gujrat
<i>Machine Learning Intern</i>	<i>January 2026 – Current</i>	<i>On-Site</i>
<ul style="list-style-type: none">• Used Machine Learning and Computer Vision Techniques to implement real-world scalable AI Solutions.• Implemented deep use of Natural-Language Processing along with Large Language Models to create independent agents for deployment.		

PROJECTS

Translate and Transcribe App	NLP & Speech Processing
Developed an App using NLP and used ReactJS for frontend and Flask-CORS for backend.	
<ul style="list-style-type: none">• Translated English Text to Hindi using Hugging Face while fine tuning the Helsinki model to increase its efficiency to 92.03%• Tokenizing Speech and fine tuning FaceBook’s Wav2Vector to recognize and understand Indian Accents 78.85% accuracy.	
Sentiment Analysis App using Big Data Techniques	Big Data Analytics and Machine Learning
Developed an App which analyzes the current sentiment and emotion across the Internet regarding a certain Topic using TextBlob.	
<ul style="list-style-type: none">• Web-Scraping Data from various APIs such as GDELT, NewsAPI and Wikipedia API.• Created producer-consumer Kafka Pipeline for real time streaming of data alongside scraping and storing the data in HDFS.• Analyzing the current sentiment using TextBlob and boosting its accuracy with XGBoost Algorithm from 75.37% to 89.65%.	
SerpentX	Reinforced Learning and OpenCV
Gamification and modernization of the Nokia Classic Snake Game which has 3 Modes : Gesture-Based, Manual and Automated	
<ul style="list-style-type: none">• Gesture Control for Rehab: Helps individuals with motor coordination challenges by using OpenCV to translate gestures into in-game actions, aiding rehabilitation.• Adaptive Difficulty: ML tracks player progress, adjusting speed and apple placement to match recovery levels.• AI-Powered Automation: Reinforced Learning agent trained over 100k epochs is used for gameplay automation.	
W.E.A.L.T.H	NLP, Sentiment Analysis, and Machine Learning Models
A stock price prediction app named W.E.A.L.T.H (Wise Economic Algorithm for Learning Trends and Hedging).	
<ul style="list-style-type: none">• Random Forest Model for price trend prediction, using both stock price and sentiment data and XGBoost for increasing accuracy while backpaper testing from 36.07% to 52.86%.• BERT Sentiment Analysis for understanding financial news and social media sentiment, classifying it into positive, neutral, or negative categories to predict stock price behavior.• Merging stock price data with sentiment scores and technical indicators to generate features for predictive models.• Combining multiple machine learning models [Random Forests, SVM and K-Means Classifier] to improve prediction accuracy. Also used Ridge Regularisation to stop overfitting.	

Certifications and Co- Curriculars

CyberSecurity and Ethical Hacking Workshop	Jaipur, Rajasthan
<i>IIT Roorkee Workshop with Hands-on Projects and Certificate</i>	<i>Jan 2023 – Feb 2023</i>
Rinex Artificial Intelligence Programme	Manipal, Karnataka
<i>Hybrid Mode programme with Industry Mentors</i>	<i>2019 – July 2019</i>
Big Data Analytics Course	Surathkal, Karnataka
<i>Big Data Course presented by InfoSys Springboard</i>	<i>2024 – Oct 2024</i>
Leetcode : 280+ Easy 520+ Medium 230+ Hard	Manipal, Karnataka
<i>Leetcode Global Rank 20,563</i>	

SKILLS

Programming: C/C++, Java, Python, HTML, CSS, Javascript, ReactJS, SQL, Node, MATLAB, Github
Tools: Microsoft Office, PyCharm, IntelliJ, Eclipse, Jupyter, Linux, Git, Visual Studio, AWS, Docker