

# PRACHI PIYUSHBHAI JETHAVA

Open to Relocate • 9303334111 • [prachi.jethava2001@gmail.com](mailto:prachi.jethava2001@gmail.com) • [linkedin.com/in/prachijethava](https://www.linkedin.com/in/prachijethava) • [Portfolio](#) • [GitHub](#)

## SUMMARY

Software Engineer skilled in data structure, data analysis, optimization and cloud tech. Experienced in building web apps and machine learning models using Python, JavaScript, React, and AWS. Eager to create practical solutions with Agile methods to tackle everyday challenges.

## EDUCATION

### Indiana University - Bloomington

Aug 2023 – May 2025

*Master of Science in Computer Science*

GPA:3.57/4.00

**Course:** Applied Algorithm, Computer Networks, Machine Learning, Software Engineering, Cloud Computing, Data Visualization

### LDRP Institute of Technology and Research

Jul 2019 – Jun 2023

*Bachelor of Engineering in Computer Engineering*

GPA:8.78/10.00

## WORK EXPERIENCE

### Full Stack Developer | Dream Leo

Sep 2022 - Feb 2023

- Use Developed and maintained 5+ ongoing real-time web applications based on client requirements, using MongoDB, React.js, and Node.js, resulting in a 30% reduction in development time and a 25% increase in testing efficiency.
- Enhanced problem-solving skills by collaborating with 3 cross-functional teams and using an iterative software development approach, following 2-week Agile sprints, leading to a 40% improvement in project delivery timelines.
- Delivered scalable solutions by managing a 500GB MongoDB database, implementing 20+ React.js features, and developing Node.js back-end logic, improving performance by 50% and reducing server response time by 35%.

### Data Analyst | Capgemini

Jul 2022 - Aug 2022

- Led 12 two-week sprints as Scrum Master, implementing Agile methodologies to manage tasks and improve team efficiency, resulting in a 72% accuracy rate in extracting key resume data and a 30% increase in overall team productivity.
- Implemented data-driven concepts for Resume Parsing, including Regular Expressions, Bounding Box, and HaarCascade, resulting in successful extraction of data from 15+ resume formats and a 40% improvement in data retrieval accuracy.
- Applied HaarCascade for image extraction with 85% accuracy, Bounding Box for 60% improved data section retrieval, and Regular Expressions for 95% accurate number extraction.

### Data Engineering and Machine Learning Intern | BrainyBeam

Jun 2022 - Jul 2022

- Engineered sentiment analysis recommender system using Support Vector Machine and Bayes classifier, achieving 68% accuracy and improving product recommendation relevance by 40% for a user base of 100,000+.
- Optimized dataset processing by implementing a custom word ranking algorithm, reducing data noise by 75% and increasing context analysis efficiency by 50%, resulting in a 30% improvement in overall system performance.
- Developed an NLP-powered content analysis tool using RNN and LSTM, capable of processing 10,000+ reviews and comments per hour with 85% prediction accuracy, leading to a 60% reduction in manual content moderation time.

## PROJECT EXPERIENCE

**Unveiling Trends: A Cloud-Driven Data:** Engineered a cloud-based data pipeline using AWS services (S3, Glue, Lambda, Athena, QuickSight) to analyze YouTube data. This system processes 5TB+ of data daily, reducing processing time by 60% and costs by 25%. The pipeline improved video category identification by 40% and audience targeting accuracy by 35%. Interactive dashboards increased data accessibility by 80% for 200+ daily users, boosting data-driven decision-making efficiency by 30%.

**Flight Booking System- VacayBuddy:** Built a travel platform with React frontend and Mongoose/Redis backend, featuring flight booking, itinerary planning, and a recommendation engine. Implemented a caching system for personalized suggestions, increasing user engagement by 25% and booking conversions by 15%. Containerized the app with Docker and CI/CD pipeline and deployed on Heroku, cutting deployment time by 40% and improving scalability to handle 50% more users during peak seasons.

**IPL Score Prediction:** Designed and developed an IPL score prediction system with a Django backend and HTML/CSS/JavaScript frontend, scraping and processing 10 years of cricket data to implement XGBoost regression for precise predictions. Integrated interactive data visualizations using Cognos Analysis software, enabling users to explore insights effectively, reducing data interpretation time by 30%, and increasing user engagement by 25% through an intuitive and user-friendly interface

## SKILLS

**Languages & Web Technologies:** Python, JavaScript, C, C++, SQL, React, Node.js, Express.js, Django, Flask, HTML, CSS

**Data Science & AI:** PyTorch, TensorFlow, Pandas, NumPy, Matplotlib, Scikit-Learn, Transformers, Regex

**Databases & Tools:** PostgreSQL, MySQL, MongoDB, Redis, Git, Linux, Postman, Jira, Tableau, Postman,

**DevOps & Cloud Platform:** Docker, Kubernetes, GitHub Action, Amazon Web Services (AWS), GCP

## LEADERSHIP AND CO-CURRICULAR ACTIVITY

**CEWIT Lead Intern:** Leading Women Who Code alliance at IU, organizing workshops, developing problem solving skills, managing interns, and collaborating with organizations to promote diversity in tech, with 9 months of experience.

**Adobe Event Co-Ordinator:** Organizing tabling workshop, event planning, managing and interacting with other team mates at IU

**IBM Hack Challenge:** Team was ranked among the top 30 out of 2,000 participants in the Hack Challenge 2021