PRACHI JETHAVA

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EDUCATION

Master of Science in Computer Science — **May 2025**
Indiana University Bloomington — *GPA: 3.57/4.00*

Bachelor of Engineering in Computer Engineering — **June 2023**
LDRP Institute of Technology and Research — *GPA: 8.78/10.00*

EXPERIENCE

Full Stack Developer | *Dream LEO, India* — **September 2022 – February 2023**

- 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 and Scrum Master | *Capgemini, India* — **July 2022 – August 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 Analyst | *BrainyBeam Technologies, India* — **June 2022 – July 2022**

- Engineered a 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.

SKILLS

Languages and Database : Python, R, SQL(PostgreSQL, MySQL), NoSQL(MongoDB, Mongoose, Redis), C, C++
Tools and Development : Node.js, React, HTML, CSS, JavaScript, Django, Git, Hadoop, Postman, Agile, Jira
Data Science: : PyTorch, TensorFlow, Keras, Scikit-Learn, Pandas, NumPy, NLTK, Matplotlib, Seaborn, Regex, Tableau
Cloud: AWS (S3, IAM, ECR, EC2, Glue, Lambda, Athena, Glue, QuickSight), Docker, Kubernetes

PROJECTS

Unveiling Trends: A Cloud-Driven Data [Link] — **December 2023 – April 2024**

- Engineered a cloud-based data pipeline using AWS (**S3, Glue, Lambda**) to analyze 5TB+ of daily YouTube data, resulting in a 40% increase in identifying emerging video categories and a 35% improvement in audience targeting accuracy.
- Implemented a scalable architecture with AWS services, reducing data processing time by 60% and cutting infrastructure costs by 25%, while configuring **Glue** crawlers and Lambda functions for data ingestion, transformation, and normalization.
- Developed interactive dashboards using Amazon **Athena** and **QuickSight**, increasing stakeholder data accessibility by 80% and supporting 200+ daily active users, leading to a 30% improvement in data-driven decision-making efficiency.

Flight Booking System- VacayBuddy [Link] — **June 2023 – November 2023**

- Architected a platform using **React**, **Mongoose**, and **Redis**, integrating flight booking, itinerary planning, and a recommendation engine that use cached data for recommendation. This resulted in a 25% increase in user engagement.
- Engineered **Docker** configurations for containerization and deployed the application on Heroku, reducing deployment time by 40% and improving application scalability to handle 50% more concurrent users during peak travel seasons.

IPL Score Prediction | *Top 30 in IBM Hackathon* **[Link]** — **August 2022 – January 2023**

- Implemented Django, for the backend were scraped past 10 years of data with handled exception to showcase future score prediction with the help of **XGBoost** regression and frontend was developed using **HTML**, **CSS** and **JavaScript**.
- Incorporated data visualization using **Cognos Analysis** and **Django**, reducing data interpretation time by 30% and increasing user engagement with interactive charts by 25%.

Employee Management System [Link] — **May 2022 – August 2022**

- Developed a comprehensive system using **Python**, **Django**, and front-end technologies, integrating NLP and ML for intelligent resume parsing, reduced administrative workload by 30%, and cut resume screening time by 50%.
- Implemented a **KNN**-based job recommendation system, increasing job matching accuracy by 40% and improving candidate placement efficiency, leading to higher employee satisfaction and retention rates.