PRACHI JETHAVA

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EDUCATION

Master of Science in Computer Science — **May 2025**
Indiana University Bloomington — *GPA: 3.35/4.00*

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 multiple ongoing real-time web applications based on client requirements, using MongoDB, React.js, and Node.js for efficient testing and development.
- Enhanced problem-solving skills by collaborating with teams and using an iterative software development approach, following Agile sprints, and integrating design feedback into projects.
- Delivered scalable, well-structured solutions by managing the database with **MongoDB**, implementing front-end features using **React.js**, and developing back-end logic with **Node.js**.

Data Analyst and Scrum Master | *Capgemini, India* — **July 2022 – August 2022**

- Led sprints as **Scrum Master**, using **Agile** methods to manage tasks and improve team efficiency, achieving **72%** accuracy in extracting key resume data.
- Implemented data-driven concepts for Resume Parsing, including RE, Boundbox, and HaarCascade, to extract data from resume formats and displaying fetched data on developed website and PPT.
- Utilized **HaarCascade** for image extraction and applied the **BoundBox** technique to improve accuracy in retrieving specific data sections and **Regular Expression** for the extracting different number types.

Data Analyst | *BrainyBeam Technologies, India* — **June 2022 – July 2022**

- Developed a recommender system that can identify the sentiments using Linguistics and Contextual Based approach by **Support Vector Machine** and Byes classifier which was accurate for **68%**.
- Processed datasets by removing repetitive words and stop words, applying word ranking to prioritize key terms and analyze the context effectively using ranking-based analysis.
- Generated content, such as reviews and comments, was analysed and predicted for statements using NLP concepts, including **RNN** and **LSTM**.

SKILLS

Languages and Database: Python, R, SQL, NoSQL, PostgreSQL, MySQL, Oracle, C, C++, HTML, JavaScript, MERN
Tools and Framework: Numpy, Pandas, Scikit Learn, Matplotlib, BeautifulSoup, Seaborn, Mongoose, API, Tableau,
Data Science and Machine Learning: Natural Language Processing, OpenCV, Hypothesis Testing, Data Analysis
Cloud: S3, IAM, Glue, Lambda, Athena, QuickSight

PROJECTS

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

- Developed a cloud-based data engineering pipeline using AWS to extract actionable insights from YouTube data, focusing on identifying emerging video categories and audience demographics for optimizing online video strategies.
- Implemented scalable and cost-effective architecture using AWS services such as **Amazon S3, AWS Glue, and AWS Lambda** to handle large volumes of YouTube data efficiently.
- Designed and configured AWS Glue crawlers and Lambda functions for data ingestion, transformation, and normalization, enabling seamless integration and compatibility with AWS services.
- Modelled interactive dashboards and visualizations through Amazon **Athena** and **QuickSight**, facilitating stakeholder access to insights and enabling informed decision-making based on emerging trends and data analysis.

News Article Summarisation — **June 2023 – November 2023**

- Implementing the **LSTM** architecture, conducted a comparative analysis and selected the top **30%** of words from the document, resulting in a 56% accuracy in **Abstractive Analysis**.
- Developed a user-friendly interface portal enabling of details from PDFs, as well direct text for articles in both English and Hindi language.
- Performing tokenization, applied **TF-IDF** and word embedding, and fine-tuned GPT-3 for summarization, emphasizing contextual meaning than ranking words.

Breast Cancer Detection — **August 2022 – January 2023**

- Utilised image data analysis by applying image processing to clean the image for a better detection using a binary classification to distinguish images between benign and malignant stage of tumours.
- Executed deep learning and Convolutional **Neural Networks**, specifically the **Inception v3 model**, to extract features and classify the identified tumour spots using a particular threshold point as identified by ML models.