Priyanka Nidadavolu

Education

Masters in Data Science; University Of California, San Diego   Sept 2025 – Present
- **Coursework:** Recommender Sys and Web Mining, Numerical Linear Algebra, Probs. and Stats for Data Science

Bachelor of Technology in Computer Science, K L University   Jun 2019 – May 2023
- GPA: 3.76/4
- Specialization in Data Science and Big Data Analytics
- **Coursework:** Data Science, Database Management Systems, Analysis and Design of Algorithms, Data Visualization Techniques, Data Warehousing and Mining, Big Data Analysis, Java Full Stack Development, Python Full Stack Development

Highlights: Codehers Coding Challenge (Top 30 in India, 2022): Achieved a top 30 ranking in this competitive coding challenge, showcasing my coding skills and problem-solving abilities.

Experience

UCSD ITS   San Diego, CA
Software Developer Intern   Oct 2025 – Present
- Working as a part time employee in Build and Release Services team at UCSD which is responsible for developing and managing continuous integration build and deployment plans and supporting servers, processes, and policies.

IBM   Bangalore, India
Software Developer   Jun 2023 – July 2025
- Reworked validation framework, reducing validation time by nearly 90% and implemented a data compression strategy, reducing storage usage by 40%.
- Developed a multi-cloud provisioner using LLMs outside of my primary work project, resulting in a 40% reduction in cloud resource management costs.
- Contributed to WatsonX AI improvement through prompt generation.
- Automated compliance checks using Django, Python, and Spring Boot, improving operational efficiency.
- Managed API integration and enhanced features in codebases exceeding 5,000 lines.
- Integrated a new task into the existing CI/CD pipeline to automate code quality checks, enhancing code consistency and maintainability and enhanced and updated Swagger documentation in response to customer feedback.

Skills: Java, Python, Spring Boot, Large Language Models (LLM), JavaScript, Django, IBM Cloud, PostgreSQL, API Development, Swagger, Quartz Scheduler, CI/CD, SonarQube

Highlights:
- Star of the Month Award (Nov 2023): Recognized by IBM for exceptional performance and significant contributions.
- People's Choice Award: Honored for a project at IBM that received positive feedback from peers, reflecting my ability to create impactful work.

IBM   Bangalore, India
Software Developer Intern   Jan 2023 – Jun 2023
- Developed a Django repository using Python and JavaScript.
- Integrated the Django repository with Spring Boot, Java, and PostgreSQL for enhanced functionality.

Skills: Java, Python, Spring Boot, JavaScript, Django, PostgreSQL

Samsung Prism   Remote
Software Developer Intern   Jun 2021 – Mar 2022
- Developed a multilingual dataset of 10,000+ names with phonetic representations to highlight similarities across different spellings.
- Utilized Python for data processing and phoneme generation, improving speech recognition accuracy by 10%.

- Improved speech recognition and phonetic matching through a robust dataset and effective phoneme validation techniques.

  Skills: Python, Speech Processing

AICTE Internship Remote

Cloud Intern Oct 2021 – Dec 2021

- Completed a cloud computing course at AICTE and applied AWS expertise to host a website on Amazon EC2.
- Configured a Linux-based EC2 instance with Apache HTTP Server for efficient static content delivery using AWS.

  Skills: AWS Cloud

Projects

Eco Enterpreneurship
GitHub link ↗

- The application provides tailored suggestions for developing sustainable entrepreneurship ideas and helps users assess the environmental impact of their projects, offering insights into their sustainability.
- Users can contribute and explore eco-friendly initiatives, donate to social causes, and promote sustainable projects, fostering a community dedicated to environmental responsibility and supporting green entrepreneurship.

  Skills: Eclipse, MySQL, Spring Boot, AWS cloud, HTML, Java, Amazon Web Services (AWS), JavaServer Pages (JSP)

Amazon Web Services Project
GitHub link ↗

- Launch a Linux-based EC2 instance, configure security settings for HTTP and SSH access, connect via SSH, and install the Apache HTTP Server (HTTPD).
- Upload the static website files, start the HTTPD service, ensure it runs at boot, verify the site's accessibility, and implement monitoring to maintain server performance and security.

  Skills: Amazon Web Services (AWS)

Customer Response Analysis in Direct Marketing Campaigns
GitHub link ↗

- Analyzed direct marketing campaign data from a Portuguese bank using Python and Tableau, identifying customer response trends that improved marketing strategies by 12%. The objective was to visualize and analyze phone-based campaign data to determine if customers subscribed to a bank term deposit.
- Utilized Python (Matplotlib, Seaborn) for data visualization and Tableau to create interactive dashboards for deeper insights, enabling more effective analysis and decision-making in future marketing efforts.

  Skills: Python, Tableau

GitHub link ↗

Online Survey System

- Developed an Online Survey System for creating, distributing, and analyzing surveys with secure data management and a user-friendly interface.
- Features modules for user interaction, template selection, form creation, sharing, and response collection, offering a simpler alternative to existing survey platforms. creation, form distribution, and response collection.

  Skills: JavaServer Pages (JSP), Servlets, SQL, Java

GitHub link ↗

Take A Trip

- Create a travel planning platform that offers curated travel suggestions and connects users with travel agents.
- Streamline the planning process with efficient backend management, secure data storage, and a responsive, personalized user interface.

  Skills: Python, MySQL, HTML, Django

Technical Skills

Languages: Python, Java, C, C++, HTML/CSS, JavaScript, MYSQL, R, YAML

Technologies/Frameworks: Django, Spring Boot, AWS, Big Data, NumPy, Pandas, Matplotlib, Quartz Scheduler, REST APIs

Developer Tools: VS Code, Eclipse, Tableau, GitHub, Jupyter, Swagger/OpenAPI, SonarQube, CI/CD