MEENAKSHI RAMAKRISHNAN

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EDUCATION

Purdue University – West Lafayette, IN
Bachelor of Science in Statistics and Linguistics | Grad: May 2025
Relevant Coursework: Machine Learning, Data Visualization, Computational Linguistics, Statistical Modeling

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SKILLS

- **Programming:** Python, R, SQL, HTML, CSS
- **Data Analysis & Visualization:** Excel, Tableau, SQL, R, Python
- **Cloud Computing:** AWS Certified Cloud Practitioner
- **Machine Learning:** NLP, Naïve Bayes Classifier, Recommendation Systems
- **Languages:** Spanish (Advanced), Tamil (Fluent)

EXPERIENCE

Citi Bank – New York City
Personal Banking Analyst, Global Fraud | May – Aug 2023
- Conducted comprehensive analysis of fraud operations across 30+ teams.
- Identified inefficiencies in fraud reporting accuracy and escalations by analyzing workflow bottlenecks and data discrepancies, streamlining processes to decrease processing time by 20%.
- Designed an interactive analytics dashboard for real-time fraud detection and workflow optimization.
- Developed AI-based solutions for email automation and fraud detection, enhancing case resolution efficiency.

Liberty Mutual – Boston, MA
API Intern | May – Aug 2022
- Developed a scalable API leveraging AWS infrastructure for secure, high-volume data ingestion and processing, reducing data retrieval time by 30% and improving system reliability for enterprise applications.
- Optimized ETL workflows to automate data transformation, reducing manual intervention.
- Enhanced front-end accessibility for an internal platform using WCAG 2.1-compliant design principles.

Sandia Flight – Lafayette, IN
Corporate Partner | Sept 2021 – Apr 2022
- Conducted usability testing and optimized flight data interfaces to improve accessibility.
- Applied Kalman filters and probabilistic models to reconstruct incomplete flight data, improving accuracy by 30%.

Purdue University – West Lafayette, IN
Teaching Assistant, STAT 190 (Data Mine) | Sept 2021 – Apr 2022
- Led weekly office hours, assisting 50+ students with coding projects in R for data visualization.
- Provided real-time guidance on Piazza, ensuring clarity in course concepts.

Purdue Exponent – West Lafayette, IN
Editor and Reporter | Aug 2021 – Present
- Authored 100+ articles covering politics, campus events, and social issues.
- Edited 600+ articles, ensuring journalistic integrity and factual accuracy.

LEADERSHIP & PROJECTS
IEEE Racing Team – Captain
- Revived an inactive team, recruited and trained 12 new members, leading them to national competitions.
- Secured $5,000 in funding through sponsorships and partnerships.

IEEE Computer Society – Head of Machine Learning Initiative
- Organized 20+ workshops on machine learning for over 50 participants.
- Mentored students in building a recommendation system for campus resources.

Hack the Future – Software Developer
- Developed a bilingual website for the Latino Cultural Center using NLP techniques, improving accessibility for 1,000+ users annually.
- Applied corpus analysis and tokenization to ensure culturally relevant translations.

Habitat for Humanity – Volunteer
- Contributed 50+ hours to constructing and renovating homes for low-income families.
- Led fundraising initiatives that generated $2,000 for building projects.

RESEARCH & PUBLICATIONS
COVID-19 Research Study, Purdue University
- Managed participant recruitment for a published study on COVID-19's impact on student mental health by leveraging targeted outreach strategies and social media engagement, addressing recruitment challenges through personalized follow-ups and incentives to ensure a diverse and representative sample.
- Conducted statistical analysis using Qualtrics XM on a sample of 1,000 respondents.
- Co-authored *"Data for Impact of Returning to Class in COVID on University Students' Health,"* published in *PLOS One* (Peer-Reviewed Journal).

Crusine App – First Place, EcoMake (Sponsored by L3Harris)
- Engineered a platform for food redistribution from restaurants to underserved communities.
- Developed a user-friendly system that won *First Place* for its innovative social impact.

Linguistics ML Algorithm – Personal Project
- Built a Naïve Bayes classifier for language identification using the Tateoba linguistic corpus.
- Achieved 63% classification accuracy through tokenization, TF-IDF, and frequency distribution analysis.

ADDITIONAL INFORMATION
- **Dance & Arts:** Choreographer and performer, Aharya Indian Classical Dance Team (Placed 2nd & 3rd in national competitions).
- **Community Engagement:** Active participant in language accessibility initiatives and tech-for-good projects.