

Rishab Doshi

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EDUCATION

University of Illinois Urbana-Champaign

GPA: 3.62/ 4.00

Bachelor of Science - Computer Science and Advertising; Minor - Statistics;

Courses: Data Structures and Algorithms, Applied Machine Learning, Database Systems, Algorithms and Design, Computer Architecture, Text-based Information Systems, Probability and Statistics

SKILLS SUMMARY

- **Languages:** Python, Java, C/C++, JavaScript, SQL, Bash, PHP, MATLAB, HTML/CSS
- **Frameworks:** Scikit, SpaCy, TensorFlow, PyTorch, Seaborn, Flask, Django, React, Node.js, Pandas, NumPy, OpenCV
- **Tools:** Power BI, Tableau, Docker, GIT, MySQL, Excel, Powerpoint
- **Platforms:** Linux, Web, Windows, Arduino, Raspberry, AWS, Microsoft Azure
- **Models:** Linear Regression, Logistic Regression, SVMs, Decision Trees, Random Forests, KNN, K-Means Clustering, PCA, ICA, XGBoost, LSTMs, RNNs, CNNs, ResNet, EfficientNet, Transformers, Ridge & LASSO Regression

PROFESSIONAL EXPERIENCE

MUSE Lab, UIUC | Research Assistant

Aug 2023 - Dec 2023

Objective: Analyzed social media sentiment, enhancing strategic communications for SHIELD Illinois.

- Leveraged Tweepy & Snsrape for data mining, extracting 500K+ posts across multiple platforms for sentiment analysis
- Utilized Bidirectional LSTM and GuidedLDA, uncovering 10 dominant thematic frames in social media discourse
- Analyzed sentiment & thematic evolution, mapping public perception shifts over 1 year, enhancing SHIELD's strategies
- Pioneered social media analytics, boosting SHIELD Illinois's outreach efficiency by 30% through engagement mapping

SS College of Engineering, Udaipur | Machine Learning Research Intern

May 2023 - Aug 2023

Objective: Optimized urban and ride-sharing traffic with algorithmic and predictive modeling.

- Performed hexagonal division for mapping origin & destination onto street network to determine traffic for 8 dock stations
- Analyzed hub location inventory model & various ride-sharing models deployed at Lyft, Uber & at New York & Shanghai
- Used greedy approach algorithm to maximize efficiency in laying of dock stations & employed heatmaps to track demand
- Forecasted demand in a 16 sq km area using fuzzy logic based on 9 factor model due to the inherent variability in demand

Infloso (www.infloso.com) | Entrepreneur in Residence

Jan 2022 - Dec 2022

Infloso is an open marketplace connecting brands & influencers facilitating data driven campaigns.

- Developed an innovative marketplace, connecting 200+ brands and influencers across platforms, catering to varied budgets
- Conducted market analysis through 150+ interviews, designed UI mockups, and streamlined operational frameworks
- Led a cross-functional team of 10 developers and marketers to successfully launch Infloso's platform on web and mobile
- Youngest winner (out of 300+ participants) for an entrepreneurship bootcamp at NUS-Singapore & INSEAD Singapore

ACADEMIC PROJECTS

iHealth | LLM-based Health Chatbot

GPT-4, BioBERT, TensorFlow, NLTK, Kubernetes, PubMed, Blockchain

- Utilized GPT-4 and BioBERT to enhance chatbot, improving medical advice with PubMed integrations
- Implemented blockchain, smart contracts for secure data sharing in cloud Kubernetes, ensuring HIPAA/GDPR compliance
- Optimized iHealth chatbot responses with semi-supervised reinforcement learning, leveraging AI and medical data insights
- Achieved significant user satisfaction increase by 40% in pilot tests, due to precise medical guidance

MoodTune| Personalized Mood-Based Music

React, Node.js, SVM, RNN, Spotify API, TensorFlow, Collaborative Filtering, Content-based Filtering

- Developed web app for mood detection from journals, curating personalized Spotify playlists, boosting emotional wellness
- Employed SVM, RNN with LSTM/GRU for mood classification; dynamic playlists via collaborative, content-based filtering
- Ensured data security, user privacy handling journal entries, Spotify history with ethical AI, secure APIs
- Increased user engagement by 30% with accurate mood detection and personalized music recommendations in tests

Stock Market Prediction | Computer Science Honors, UIUC

Pandas, NumPy, yfinance, LSTM Neural Network, Machine Learning, BeautifulSoup

- Applied ARIMA, Exponential Smoothing in "TradingLead" for 85% accurate stock trend forecasts on historical data
- Boosted model accuracy by 5% with NLP-based sentiment analysis from financial news, refining contextual input
- Enabled data processing via cloud computing, developed interactive front-end for real-time performance visualization
- Increased user adoption by 25% with enhanced predictive models and user-friendly performance visualization tools

ORGANIZATIONAL EXPERIENCE

Engineering Council EXPO Committee| Technology Lead

Jan 2023 - Present

- Implemented matchmaking algorithm and virtual booths to enhance student-company interactions and engagement
- Streamlined registration and feedback process, improving user experience and increasing feedback rate by 30%

Engineering Council| Corporate Committee

Jan 2023 - Dec 2023

- Managed corporate partnerships, boosting Spring Career Fair visibility and attracting over 3500 students for recruitment
- Orchestrated logistics and strategies for career fairs, leading to a 20% increase in corporate participant satisfaction

Founders| Web Developer

Jan 2023 - April 2023

- Building a Co-Founder match system with Daisy UI, React JS, Go and MongoDB