

# Prashant Reddy Pilla

Minneapolis, MN • +1 (623) 640-6533 • [pilla146@umn.edu](mailto:pilla146@umn.edu) • [linkedin.com/in/prashant-pilla](https://www.linkedin.com/in/prashant-pilla)

## EDUCATION

**University of Minnesota, College of Science and Engineering**, Minneapolis, MN

May 2025

*Bachelor of Science in Computer Science* (MLK scholar, MCAE scholar)

**GPA:** 3.6/4.00 (Dean's list)

**Relevant Coursework:** Advanced Artificial Intelligence Methods, Applied Machine Learning, Data Structures and Algorithms, Advanced Programming Principles, Cybersecurity Foundations, Network Systems Engineering

## EXPERIENCES

**University of Minnesota**, Minneapolis, MN

September 2024 – Present

*AI and Machine Learning Researcher / Hackathon Contestant*

- Published pre-print on LSTM models forecasting the S&P 500 with 96% accuracy, using TensorFlow for deep learning, Pandas for data processing, and Seaborn for data visualization. ([Available on arXiv](#))
- Engineered a convolutional neural network to classify handwritten digits using PyTorch, Scikit-learn, and Matplotlib.
- Automated dataset cleaning with reversible tracking of cleaned data, reducing preprocessing time by 18%.

**TekFriday Processing Solutions**, Hyderabad, India

May 2024 - July 2024

*Full-Stack Product Engineer*

- Designed and developed a proof-of-concept P2P co-lending app integrating MySQL backend and Flutter frontend.
- Built a government scheme-matching platform, enabling 800+ users to access tailored benefits.
- Delivered scalable, responsive applications implementing Agile methodologies and SOLID design principles.

**OF The Agency**, New York, NY

December 2023 – January 2024

*UX Engineer*

- Designed 12 website pages' wireframes, driving a 22% user engagement increase and 27% bounce rate reduction.
- Enhanced user navigation via intuitive design and branding guidelines, resulting in a 15% increase in session duration.
- Incorporated client feedback to refine HTML, JavaScript, and CSS-based features, iterating on usability and accessibility.

**Loyalty Juggernaut**, Palo Alto, CA

June 2023 - August 2023

*Software Engineer Intern*

- Automated data synchronization using REST APIs, achieving 500% improvement in efficiency.
- Implemented Java and Spring-based integrations for ticketing systems, streamlining client-developer collaboration.
- Authored comprehensive API documentation to standardize future scalability and onboarding of developers.

**Theertha Group**, Hyderabad, India

October 2021 - February 2022

*Software Engineer – Accounting Systems*

- Transitioned manual bookkeeping to a digital accounting system, increasing efficiency by 80%.
- Deployed full-stack solution with Java, Spring Framework, Angular, and Heroku, improving reporting accuracy by 16%.
- Designed and created interactive wireframes to optimize user workflows, reducing task completion time by 30%.

## PROJECTS

**Drone Delivery Simulation** (Python, C++, Docker, GitHub, Agile Scrum, UML):

- Engineered 4 features: data collection, multi-drone coordination, weather simulation, and a priority queue scheduler.
- Applied SOLID principles and appropriate design patterns (Strategy, Observer, Factory) to modularize components.
- Used Docker for environment consistency, GitHub for version control, and Agile Scrum for iterative development with biweekly sprints and UML for system modeling.

**Colosseum Hackathon – Crypto Payments & Bill Splitting** (Solana Web3.js, Next.js, Express.js, Supabase):

- Led product design for Solana-based web app supporting USDC/SOL payments, smart bill splitting, and AI financial insights.
- Implemented wallet authentication (Phantom, Solflare), Supabase-powered user data handling, and dynamic UI with Radix UI, Tailwind CSS, and Framer Motion.
- Delivered functional MVP with real-time transactions and AI modules in under 48 hours.

## TECHNICAL SKILLS

**Programming:** Java, Python, C++, SQL, JavaScript, HTML/CSS, Flutter

**ML and Data Science:** TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Jupyter

**Frameworks/Tools:** Spring, Web3.js, Node.js, Express.js, AWS, DynamoDB, REST APIs, Git, GitHub, Docker, Heroku

**Other:** UI/UX Design, Wireframing, UML, Agile Development, Agile Scrum, SOLID Design Principles