PRATEET MISHRA

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Full-Stack Developer & Machine Learning Enthusiast

EDUCATION

University of Southern California **Jan 2024 - Present**
Master's in Computer Science GPA:**3.4/4.0**
Symbiosis University of Applied Sciences **Aug 2019 - June 2023**
Bachelors of Technology in Computer Science and Information Technology GPA: **9.23/10**

TECHNICAL SKILLS

- **Frontend/Backend:** Front-end development (HTML5, CSS, JavaScript, TypeScript, Ajax, ReactJS, AngularJS, nextJS) and NodeJS, FireBase, Supabase and back-end scripting with Python, Go, Ruby, Java, C
- **UI / Styling:** Tailwind CSS, CSS3 (Flexbox, Grid), shadcn/ui, responsive design.
- **Authentication / Security & Automation:** Clerk, JWT-based auth, Inngest (cron jobs), serverless functions, Supply Chain
- **Database / ORM:** MySQL, SQLite, PostgreSQL, MongoDB, Prisma, Supabase
- **AI / ML Technologies:** ML, NLP, LLMs, TensorFlow, Keras, scikit-learn for predictive modeling and analysis

INTERNSHIP EXPERIENCE

Software Developer - NICT Technologies Pvt. Ltd., Indore, India **Sept 2022 - Dec 2022**

- Designed and created a NFT Marketplace leveraging ethereum blockchain, ReactJS and InterPlanetary File System (IPFS) as a part of a 6 member team, focusing on decentralized application architecture and responsive frontend development
- Increased user engagement by 25% through real-time secure NFT browsing and transactions
- Integrated MetaMask for secured, real time, ETH based transactions with help of users can purchase, sell or resell NFT's while ensuring cryptographic security and compatibility with Ethereum Contracts
- Implemented user authentication, NFT minting, listing and bidding functionalities through a seamless web interface and Interacted with smart contracts utilizing Web3.js and managed on chain transactions

Full Stack Developer - Ypsilon IT Solutions Pvt. Ltd., Indore, India **June 2022 - Sep 2022**

- Devised a Scrap Auction web app (Django, HTML/CSS/JS, SASS, Webpack, MySQL) in a 4-member team, enabling real-time bidding and strengthen transactions with role-based logins and custom dashboards
- Built user interfaces for product listing, bidding and cart checkout. In addition, Implemented RESTful API's using Django Rest Framework to support real time data updates, seamless user interactions and asynchronous bidding flaws
- Designed an alert module to automate 200+ notifications per auction and keep participants informed of bidding activities, improving retention and engagement.

ACADEMIC PROJECTS

Stocks Web Application [AngularJS, NodeJS, AJAX, JSON, HTML5, Bootstrap, MongoDB, GCP, highcharts]:

- Implemented real-time stock search with autocomplete and dynamic rendering in Angular Material, integrating Top News, Price Charts (Highcharts) and Insights tabs to deliver instant access to 100+ company details, trends, and earnings data
- Developed a watchlist and wallet-based module enabling users to track and trade 100+ stocks, execute buy/sell transactions based on wallet balance, and monitor live prices, P/L, and transaction history via WebSockets with visual feedback

WeBudget – AI-driven Budgeting & Bill-Splitting App [Next.js, shadcn/ui, Clerk, Arcjet, Inngest, Prisma, Supabase]:

- Deployed a full-stack budgeting and bill-splitting platform to 50+ beta users, combining Splitwise-style expense sharing with AI-powered receipt scanning achieved 95% categorization accuracy
- Architected assured authentication and automated 10+ recurring expense tasks using Clerk, Arcjet, and Inngest cron jobs, resulting in 99% uptime and reducing manual tracking time by ~3 hours/month per user
- Constructed a responsive UI with shadcn/ui on Next.js and integrated Prisma + Supabase for real-time collaborative expense tracking of 200+ transactions during pilot testing

Transfer Learning for Image Classification [TensorFlow, Keras, OpenCV, Pandas and NumPy]:

- Developed a transfer-learning image-classification pipeline (ResNet50/101, EfficientNet-B0, VGG16) in TensorFlow/Keras & OpenCV to classify six outdoor scenes with optimized preprocessing, augmentation, and hyperparameter tuning
- Evaluated model effectiveness through precision, recall, F1-score, and ROC-AUC metrics. Achieved an accuracy of 0.9% with the EfficientNetB0 model outperformed other models by having low test loss and high test accuracy

PUBLICATIONS

- "A deep convolution network-based Pneumonia identification from thoracic X-ray imagery scans", in the proceedings of 6Th International World conference on smart trends in system, security and sustainability, 24th -27th August 2022, London, UK.
- "Use of IoT in WiFi-based Home Automation System over the Cloud Using Arduino", in the transaction of The InternationalConference on Global Economic Revolutions (ICGER 2023), 27th -28th February 2023, Dubai, UAE.