

Aishwarya Dev

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EDUCATION

MS, Computer Science, University of California, Los Angeles, **GPA: 3.6/4**

Sep 2021 — Sep 2023

Courses: *Neural Networks and Deep Learning, NLP, NLG, Computer Vision, Cognitive Artificial Intelligence, Computational Genomics, ML in Neuroscience, Cryptography and Blockchain*

BE, Electronics and Communication, Medi-Caps Institute of Technology and Management, **GPA: 8.3/10**

Aug 2013 — May 2017

Relevant Courses: *Computer Networks, Computer System Architecture, Digital Logic and Circuits, Signals and Systems*

TECHNICAL SKILLS

- **Programming Languages:** Python, Javascript, Typescript, C#, C++, Shell scripting
- **Machine Learning tools and libraries:** PyTorch, Tensorflow, Pandas, NumPy, Matplotlib, HuggingFace, Scikit-learn
- **Frontend frameworks and libraries:** ReactJS, Angular, AngularJs
- **Backend frameworks:** NodeJs, ASP.NET Core, Angular, EF Core
- **Database Management:** SQL Server, MySQL, MongoDB, Redis, Neo4j
- **UI/UX:** Figma, HTML5, CSS3, SCSS
- **Other Tools:** Git, Github, Agile, DevOps, Linux, Microsoft Azure
- **Blockchain and Cryptocurrencies:** Ethereum 2.0, Algorand, Solidity, PyTeal

WORK EXPERIENCE

Software Engineer Intern, Illumina Inc.

June 2022 — Sept 2022

- Sequenced animations and profiled graphics performance across range of customizable hardware and software configurations by developing a sophisticated UI benchmarking tool.
- Discovered cutting-edge DNA sequencing solutions for disease predictions by collaborating with Illumina AI team.

Full Stack Developer, Tata Consultancy Services

Aug 2019 — Sep 2021

Analyzed software requirements and designed development wireframes to support the creation of high-quality software solutions. Leveraged strong technical expertise in developing, integrating, and implementing software for a cloud services management portal. Led database management and created database schemas in alignment with project goals/objectives. Delivered product walkthroughs to clients while preparing comprehensive software release notes and user manuals. Provided technical guidance and support to team members on troubleshooting issues, identifying areas for improvement, optimizing code, and ensuring seamless workflows.

- Developed and managed user-friendly and responsive front-end/back-end/middleware using industry-standard web development tools and technologies.
- Minimized bugs by 30% through timely release of bug-free software.
- Maintained code compliance and expedited software delivery by efficient code reviews and test case automation.

System Engineer, Tata Consultancy Services

Apr 2018 — Jul 2019

Facilitated Banking operations by overseeing applications and servers for offshore operations management. Optimized and managed seven banking applications and integrations. Enhanced and maintained legacy code and implemented IT best practices for application management and server optimization.

- Generated 25% of annual revenue by contributing to application migration from on-premise bank servers to Azure.
- Drove 50% workload distribution and increased efficiency across teams by providing training and troubleshooting assistance to new teams.

ACADEMIC PROJECTS

Multimodal Sarcasm Generation [[Code](#)][[Report](#)]

- A novel unsupervised approach for sarcasm generation from images in a multimodal setting by leveraging image caption generation and enhancing captions with sarcastic elements. A GPT-Neo generative model is fine-tuned on a combination of sarcasm and meme databases, and rendered caption refinement based on sentiment analysis, using negativity as a measure of sarcasm.

Time Series Analysis of Monero Prices [[Code](#)][[Report](#)]

- Comprehensive time series analysis of one of the most popular privacy coins - Monero, including stationarity analysis, outlier removal, ARMA model selection using ACF and PACF, regression modeling for detrending, spectral analysis, seasonality analysis, differencing, AIC and BIC model evaluation, best fit model selection, forecasting, and prediction accuracy determination.

Exploring the Integration of Credit and Debit Cards in the Blockchain Ecosystem [[Report](#)]

- Integration of credit and debit card offerings including card processing lifecycle with blockchain technology in the context of Decentralized Finance (DeFi) and analysis of algorithms and liquidity mechanisms in Decentralized Exchanges (DEXes).

Unsupervised Machine Learning for Neural Behavior Analysis [[Code](#)]

- Unsupervised Machine Learning for analyzing neural spikes in a rat's brain as a function of its position and direction, identifying neural firing patterns and clusters across different trials and neurons

ACTIVITIES / LEADERSHIP / VOLUNTEER EXPERIENCE

- Panelist and speaker at Google LA's Kode with Klossy Summer 2023 coding camp.
- Google Women Techmakers Ambassador and GDG North America member.
- Hackathon judge at [Sachacks 2022](#), an intercollegiate hackathon.
- UCLA Data Management Systems, and Software Construction Teaching Assistant.
- SD squared volunteer for generating predictive demographics, automations, and visualizations for Monday.com