Aviral Jain

Graduate, Indian Institute of Technology Kharagpur

Artificial Intelligence and Machine Learning (M.Tech) + Agricultural and Food Engineering (B.Tech) Email:

All India Secondary School Examination

Micro-Specialisation in Entrepreneurship & Innovation

EDUCATION Year Degree/Exam Institute/School CGPA/Marks 2023 B.Tech + M.Tech Dual Degree Indian Institute of Technology, Kharagpur 8.88/10 All India Senior School Certificate Examination 2018 Sir Padampat Singhania School, Kota 90.0%

EXPERIENCE

2016

Analyst (Full-Time) | Deloitte Consulting USI

Aug '23 - Present

10/10

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Sir Padampat Singhania School, Kota

- Configured and developed pricing solutions at Deloitte using the PriceFX tool, worked on key components like Dashboards and Price Grids
- Took full ownership in the development of over 10 dashboards, displaying critical business metrics such as Price Guidance, Transactions
- · Led the build of a proprietary Price Optimization module within PriceFX, resulting in a significant reduction in external operational costs • Actively contributed to the internal Al Council, drove the education of practitioners in terms of the latest tools and practices related to Al
- Achieved a notable **bronze** standing in a **firm wide Gen-Al Quiz**, highlighting commitment to staying informed about latest Al technologies

Software Developer (Internship) | Track and Trace, Honeywell

May '22 - Jun '22

- · Worked in an agile production environment with 100+ UX design iterations for a building a redesigned Track & Trace for Manufacturers portal
- Integrated the Serialization Engine to the portal using React.JS and embedded a dynamic map to the Dashboard using GoogleMaps API
- Built docker container clusters on AWS, utilized Kubernetes and Docker for the runtime environment of the CI/CD deployment pipeline

Data Science Researcher (Internship) | ixigo

- · Used Survival Analysis to generate probabilistic time delta predictions for pre-emptive caching of flight search and price change data
- Trained, fine-tuned and benchmarked several Survival models, achieving 95%ile prediction accuracy within a 180s absolute error window

Data Scientist (Internship) | OneCard, FPL Technologies

Feb '22 - Mar '22

- Implemented an in-house address standardization API, which parses rough addresses and restructures them into a standardized format
- Extracted primary components of addresses using Named Entity Recognition, exposed the feature as an HTTP endpoint using REST APIs

PROJECTS

Deep Learning for Emulation of Spatio-temporal Processes | Masters Thesis Project (github 1, github 2)

Jul '22 - May'23

- Built an autoencoder based weather prediction model to forecast different climate variables using a novel Spatial Transformation Network
- Implemented an inexpensive deep learning emulator which can mimic an Agent Based Simulator Model for Covid-19 epidemic modeling

Wheat Head Identification for Yield Monitoring | Bachelors Thesis Project (github)

Sep '21 - Dec '21

• Trained, fine-tuned and benchmarked several image detection models to detect and count wheat heads in a given image from a wheat field

Multi Agent Path Planning for Precision Agriculture | Al Course Project (github)

Sep '21 - Nov '21

Modeled the multi agent path finding problem for managing swarms for precision agriculture, using a Conflict Based Search algorithm

Breast Histopathology Image Segmentation | Machine Vision Lab, IIT Roorkee (github)

Dec '20 - Feb '21

- Built several classification and segmentation models for identifying cancer cell nuclei in benign and malignant Breast Ultrasound images
- Benchmarked several adversarial models like c-GAN, Res-UNet+, and achieved excellent results over metrics like Dice (88%), Jaccard (93%)

COMPETITIONS

Run with the Giants | SP Jain Institute of Management | National Finalist

Jun '21 - Jul '21

• Analyzed Stripe's business model and market position, suggested strategic initiatives to tackle problems faced during the Covid-19 pandemic

Drishtee's Tech Led Innovation for Rural Entrepreneurs | 9th Inter IIT Tech Meet | Gold Medal

Mar '21 - Apr '21

• Performed primary research among 100+ survey candidates; validated the product-market fit; led the design team for the IIT KGP contingent

Hult Prize Challenge, IIT Kharagpur | Campus Finalists

Nov '20 - Dec '20

· Proposed a systematic storage and sale platform for crops to minimize wastage in the domestic food supply chain and improve food security

SKILLS

Languages: C++, Python, Groovy, Java, Javascript, SQL Libraries: pandas, PyTorch, Tensorflow, Keras, sklearn, PIL, OpenCV, NLTK, React Skills: Web Development, Agile Methodologies, Git Version Control, Linux Shell, Microsoft Suite

Coursework: Machine Learning | Artificial Intelligence | Linear Algebra | Probability & Statistics | Data Structures & Algorithms | Entrepreneurship

EXTRA CURRICULAR ACTIVITIES

Filmmaking - Gold Medal @ Inter IIT Cultural (2019) **Photography** - Head @ Technology Filmmaking and Photography Society (2020-21) Ad Design - Silver Medal (2018-19) and Gold Medal (2019-20) @ General Tech Championship, Gold Medal @ Brand-Design - Springfest (2019)