

Yash Pathania Student At UCD

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Profile

Dedicated Software Engineer with two years of hands-on experience, complemented by a proactive freelancing background. Passionate about driving results, one line of code at a time.

Professional Experience

Tata 1mg, SDE  Jul 2022 – Present | Delhi, India

- **Odin - Inventory Management**
 - Key contributor; set industry standards.
 - Developed dynamic pricing with ML (Xg boost, deep reinforcement learning).
- **Inventory & Order Enhancement**
 - Managed 1000+ batches for compliance.
 - Boosted order processing by 40% with SKU tagging.
- **Procurement Reliability**
 - Decoupled Odin's purchasing using SQS and Lambda; 15% reliability increase.
- **Warehouse Automation**
 - Pioneered automated procurement, optimizing inventory.
- Worked on cut strip module; allowing for seeing loose medicine on retail stores.
- Decoupled microservices from Legacy ROR monolith to sanic python
- Worked on Testing Suite

Tata 1mg, Software Developer Intern Jan 2022 – Jun 2022

Worked on ROR Framework and YJIT Compiler. Recived an A+ for industry internship.

Sketch Bytes, Software Developer Internship Apr 2020 – Apr 2021 | Port Blair

- **Module Development & Enhancement**
 - Successfully debugged and engineered two pivotal modules, elevating system performance.
- **Significant Healthcare Impact**
 - Directly influenced care at 7 hospitals, positively impacting over 7,000 COVID patients.
- **Network Fabrication & Integration**
 - Crafted robust inter-hospital networks using Django and Python, ensuring efficient communication and data exchange.

Olive Green Immigration, Web Developer Freelancing  Jun 2020 – Aug 2020

- Established a front end for the company.
- Created a data entry system as required by the client.
- Set up automatic emails and custom email servers.
- Designed various email headers and designs using HTML& CSS.

Saansha Artworks, Co-Founder/Technical Head/Sales head Nov 2020 – Jun 2021 | Delhi

- Co-founded a startup focusing on selling stationery online.
- Made it to Amazon Best Seller Planner for 2021.
- Lead the logistics and technical department.
- Built native payment portals for the prototype phase.

Education

University College Dublin, Sep 2024 – present | Dublin, Ireland

Msc Computer Science Artifical Intelligence

MSc in Computer Science Negotiated Learning with an Emphasis on Artificial Intelligence and Data Science

Thapar Institute of Technology, 2018 – 2022 | Patiala

BE Computer Science with Minors in Data Science

Computer Science, B.E. 4th year GPA: 3.2

Skills

Python — Sanic,Django | **Web Dev** — React | **C++** | **Machine Learning** | **Postgres** | **Ruby On Rails** | **Kubernetes** | **AWS** — SQS, Kafka, EC2, S2 | **Bitbucket** — CI-CD Pipelines | **Redis** | **MongoDb** | **Rspec** | **Docker** | **Podman** | **PyTorch** | **Tensorflow**

Projects

Detecting Emotions of Tweets Using Machine Learning and Deep Learning Technique, Research Paper

Analyzed the SemEval Data Set for vernaculars and emoticons.

Explored BERT and convolutional neural networks for advanced text analysis.

Published findings in the Tech Science Journal, setting new benchmarks for model comparison.

Simple Stock, Machine learning

Developed a machine learning model for stock price forecasting.

Integrated LSTM with sentiment analysis for enhanced accuracy.

Utilized BERT for NLP, analyzing sentiments from news and forums.

Achieved a 4.5-6% accuracy improvement for traditional stock predictions.

Tech Stack Upgrade

Directed a comprehensive tech stack overhaul at Tata 1mg, spearheading the upgrade of Ruby from 2.6 to 3.2 (YJIT) and Rails from version 5 to 7. This initiative also encompassed the migration of PostgreSQL databases to Graviton instances on AWS.

Testing Suite

Developed foundational quotes and unit testing strategies for ODIN, a legacy Ruby on Rails application, utilizing RSpec and Should Matchers. Successfully increased code coverage to 80% for a codebase exceeding 35,000 lines.

Auto Purchasing For Warehouses

Designed an automated procurement system for location-specific pharmaceutical demands.

Integrated Prophet by Meta with proprietary forecasting algorithms.

Streamlined procurement, optimizing inventory levels, and reducing stock shortages.

Hawkeye, AI-Powered Surveillance for Retail Optimization

Hawkeye is an ongoing SaaS project currently in development, focused on building modular solutions for various brick-and-mortar establishments. Leveraging YOLOv7 for real-time object detection, Hawkeye aims to provide actionable insights for industries such as retail, healthcare, and other physical institutions through advanced video analytics.

Certificates

Infosys Certified Software Programmer:  Certification Around basic Principles in Software Development

5 Star Problem Solving Hackerank

Top 100 in codechef smackdown

AI Certification from University Of Helsinki 

Hobbies

Basketball, Debating, Certified Scuba Instructor, Cooking  — Have been on a reality tv show for cooking

Organizations

Aisec, Business Executive

Jan 2020 – Jul 2021 | Patiala

Frosh, Head Coordinator

Thapar Patiala

Thapar's annual fresher's event.