

OM UMRANIA

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EDUCATION

Dr. D. Y. Patil Institute of Engineering, Management and Research, Pune, MH, India (2021-2025)
Bachelors of Engineering in Artificial Intelligence & Data Science

- Relevant Coursework: Machine Learning, Data Analytics, Artificial Intelligence, Neural Networks
- GPA: 8.27/10

Higher Secondary Education, Dinanath High School, Nagpur, MH, India (2018-2020)

Senior Secondary Education, Bhavan's Vidya Mandir Nagpur, MH, India (2016-2018)

RESEARCH EXPERIENCE

Optimising Pharmaceutical Sales and Marketing with Data Analytics IEEE, Jul 2024

- Co-authored research on data-driven strategies to improve pharmaceutical sales using machine learning.
- Increased sales prediction accuracy and optimized marketing strategies through advanced data analysis.

PATENT

Visual Prompting Dashboard System for Enhanced Professional Networking Filed, Mar 2024

- Designed a real-time, context-aware visual prompting system leveraging machine learning to optimize user interactions in professional networking. Integrated with BrainChain, enhancing network efficiency and engagement through predictive prompts.

Tier-Based Networking System for Professional Networking Filed, Mar 2024

- Developed a machine learning-powered tier-based framework for user categorization, streamlining professional networking. Integrated with BrainChain to enhance personalized content delivery and optimize user engagement.

EXPERIENCE

Saathealth | Business Data Analyst Intern Jul 2024 – Present

- Analysed large-scale healthcare datasets to support AI-powered platform optimisation.
- Developed dashboards using Tableau, Google Sheets and Notion for real-time insights on user behaviour and product performance.
- Conducted market research and compiled data-driven reports for strategic decision-making.
- Skills: SQL, Tableau, Python.

Constrogreen Techno Solutions | Research Internship in ML and DS Dec 2023 – Feb 2024

- Developed machine learning models using Neural Networks and Linear Regression for Medical Insurance Analysis.
- Enhanced data science foundation through hands-on projects.
- Skills Used: Python, Scikit-learn, Data Analysis.

POSITIONS OF RESPONSIBILITY

President, Innovation Incubation Cell (Jul 2023 – Present)

- Led MSME Defense Expo 2024 from our college and had group discussion on AI research sessions.
- Conducted mentor-mentee programs on advanced research techniques.

President, Entrepreneurship Development Cell (Jul 2023 – Present)

- Implemented research-oriented frameworks and guided interdisciplinary AI projects.

Human Resource, Sponsorship Curator, TEDxDYPakurdi (Jul 2022 – Jun 2024)

- Organized TechXplore and AI research sessions for TEDx Community.
- Promoted research topics to over 500 students.

Media Head, Artificial Intelligence Student Association (Jul 2022 – Jun 2024)

- Led research communication initiatives on AI trends.
- Organised industry-academic discussions.

Technical Coordinator, Pytho-War & Data Wizards (Feb 2023)

- Coordinated Machine Learning Hackathon; designed problem statements on data science.

PROJECTS

Credit Card Fraud Detection Jan 2024

- Built machine learning models (XGBoost, Logistic Regression) to detect fraudulent transactions with >90 % accuracy.
- Visualised results with confusion matrices and ROC curves.
- Tools: Python, Scikit-learn, XGBoost.

Medical Insurance Cost with Linear Regression Feb 2024

- Developed Linear Regression models to predict insurance costs, achieving an R-squared of 0.85.
- Tools: Python, Scikit-learn, Pandas.

Healthcare Data Analysis Mar 2024

- Conducted data analysis and built Random Forest models for health outcome prediction with 85% accuracy.
- Tools: Python, Scikit-learn, Pandas.

Learning Management Portal | UI/UX and Frontend Team Jan 2024 – Jun 2024

- Contributed to designing a user-friendly interface and integrated project management features using Notion.
- Skills: Next.js, Tailwind CSS

Other Projects

- Freelancing (2023-24): Developed promotional materials for CGTS; contributed to nanoparticle research presentations.
- Hackathons & Competitions (2023-24): Participated in Smart India Hackathon, Kavach 2k23, and AI-based poster presentations.

CERTIFICATES

- Accenture North America - Data Analytics and Visualization Job Simulation Sept 2023
- Mastering Data Structures & Algorithms using C and C++ Mar 2023
- Python for Machine Learning & Data Science Masterclass Apr 2024
- Statistics for Data Science and Business Analysis May 2024
- Combining Machine Learning and Rules for Cybersecurity Mar 2024
- Microsoft Excel - Excel from Beginner to Advanced Jun 2023
- MoE's Innovation Cell Apr 2024

SKILLS

Technical Skills:

- **Data Science & Machine Learning:** Proficient in data analysis, ML models (Regression, Decision Trees, Random Forest, XGBoost), and neural networks.
- **Deep Learning & NLP:** Basic knowledge of CNN, RNN, LSTM, and text processing (TF-IDF, Word2Vec, BERT).
- **Data Analysis & Visualization:** Skilled in Pandas, NumPy, Matplotlib, Seaborn, and Plotly.
- **Statistical Analysis:** A/B testing, hypothesis testing, and performance evaluation.
- **Database Management:** SQL (PostgreSQL, MySQL) and data querying.
- **Cloud Platforms:** AWS (S3, EC2, SageMaker), Google Cloud (BigQuery), Microsoft Azure.
- **Development:** Python (Advanced), R, C++, Java, and Docker.
- **SEO & Market Research:** Experience in SEO strategies and market analysis.
- **Technical Proficiency:** Familiar with GitHub, JIRA, Notion, and other collaboration tools.

Research Methodologies:

- Literature review, experiment design, feature engineering, and data cleaning.

Soft Skills:

- **Communication:** Strong verbal and written communication for technical presentations and documentation.
- **Analytical Thinking:** Detail-oriented and independent problem solver.
- **Team Collaboration:** Effective team player; mentor for technical projects.
- **Leadership & Coordination:** Led research teams and organized technical events.
- **Sales & Lead Generation:** Strategy development and client relationship management.