ARPIT

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Education

Vellore Institute of Technology   **Bhopal, Madhya Pradesh**
   Master of Technology in Artificial Intelligence and Data Science   Expected Jul 2026
      Cumulative GPA: 9.05/10

Dr. A P J Abdul Kalam Technical University   **Lucknow, Uttar Pradesh**
   Bachelor of Technology in Computer Science and Engineering   Jul 2023
      Cumulative CGPA: 7.49/10

Technical Skills

- **Programming Language:** C, Python3.
- **Databases:** MongoDB, MySQL.
- **MLOps Framework:** MLFlow, Kubeflow, Docker, Kubernetes, EC2 Instance.
- **Libraries:** NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, TensorFlow.
- **Data Analysis**: Exploratory Data Analysis (EDA), Statistical Analysis, Hypothesis Testing.
- **Machine Learning:** Regression, Random Forest, naïve Bayes, SVM, K- means Clustering, SVD/PCA, Anomaly Detection.
- **Deep Learning:** Neural Network, CNN, RNN, LSTM, GAN.
- **Development Tools & Environments:** Jupyter Notebook, Google Colab, VS Code, PyCharm, Git, GitHub.
- **Mathematics & Statistics:** Strong foundation in Probability, Linear Algebra, Calculus, and Statistical Methods.

Experience

Asvin Tech (DENTRA)   **Remote, India**
Machine Learning Engineer Intern (CERTIFICATE**)**   Jan 2024 – Feb 2024
- Designed and deployed an OpenCV-based image processing pipeline, reducing noise by 30% and improving object detection accuracy by 25%.
- Enhanced vision-based model performance by implementing contour detection and edge filters, increasing precision from 85% to 92%.

E & ICT Academy (CERTIFICATE**)**   **IIT Kanpur**
Students Ambassador   Oct 2021 – Mar 2023
- Launched social media campaigns reaching 5K+ students, driving 40% higher event participation.
- Organized 8+ career workshops connecting 200+ students with industry opportunities.

Prutor.ai@ IITK (CERTIFICATE**)**   **IIT Kanpur**
Junior Software Developer Intern   Jul 2022 – Sep 2022
- Implemented testing protocols for client-server applications, reducing bug reports by 35%.
- Refined system specifications, improving deployment success rate by 20%.

Projects

Implement-the-Sparse-RBM-for-gene-selection-and-classification (GitHub Link**)**   Mar 2025 – May 2025
- Achieved 94% classification accuracy for leukemia subtypes using Sparse RBM, outperforming baseline models by 15%.
- Reduced gene feature dimensions by 70% through automated biomarker discovery, accelerating processing time by 40%.
- Deployed end-to-end AutoML pipeline on Kubernetes, enabling real-time model retraining and reducing manual intervention by 25 hours/month.

I Phone Sales Analysis (GitHub Link**)**   Jan 2025 – Feb 2025
- Mined 100k+ sales records with Pandas/Seaborn to identify top 3 models driving 45% of revenue growth.
- Designed dashboard visualizations model, region, and time-series views enabling executive stakeholders to optimize inventory allocation.
- Formulated data-driven recommendations that informed a 15% inventory reduction in slow-moving SKUs and boosted on-shelf availability by 10%.

Analyzed Titanic Data Set (GitHub Link**)**   Jun 2024 – Sep 2024
- Predicted survival with 83% accuracy using feature-engineered Random Forest (age bins, family size), exceeding academic benchmarks by 11%.
- Discovered 1st-class women had 95% survival rates through Seaborn visualizations, highlighting class/gender as critical decision factors.
- Optimized model performance by 12% through hyperparameter tuning, reducing false negatives by 22%.

Certifications & Training:

- Artificial Intelligence + Machine Learning (**Prutor@IITK**) – Sep 2022- Oct 2022
- Student Development Program on Artificial Intelligence + Machine Learning (**Prutor@IITK**) – 28th Mar 2022- 1st Apr 2022

Curricular Activities:

- **Team Lead, Buildthan 2024 Hackathon | VIT Bhopal**: Led 4-member team to develop AI recommendation engine, ranking Top 5 among 50+ teams.
- **Volunteer, International Conference on Data Computation and Communication (ICDCC 2024), VIT Bhopal:** Contributed to the smooth execution of an IEEE-sponsored international conference by supporting organizational tasks and engaging with professionals from academia and industry.
- **Served as Facilitator for the workshop titled:** "LaTeX: A Tool for Technical Writing and Scientific Research with Hands-On Training," conducted on November 5th and 7th, 2024.