ARPIT

Phone: +916387133369 Email: [tripathikiot@gmail.com](mailto:tripathikiot@gmail.com) GitHub: [github.com/19035100Arpit](https://github.com/19035100Arpit) LinkedIn: [linkedin.com/in/arpittripathi20/](https://www.linkedin.com/in/arpittripathi20)

# 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**)**](https://github.com/19035100Arpit/CERTIFICATE/blob/314944ae3ca632b5f3bc55da29fd8e0cc8e3dff6/CERTIFICATE%20OF%20COMPLETION%20MACHINE%20LEARNING%20INTERN.pdf)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](https://github.com/19035100Arpit/CERTIFICATE/blob/314944ae3ca632b5f3bc55da29fd8e0cc8e3dff6/Student%20Ambassdor.pdf)) 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](https://github.com/19035100Arpit/CERTIFICATE/blob/314944ae3ca632b5f3bc55da29fd8e0cc8e3dff6/Junior%20software.developer%20Certificate.pdf)) 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](https://github.com/19035100Arpit/Implement-the-Sparse-RBM-for-gene-selection-and-classification)**)** 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](https://github.com/19035100Arpit/iPhoneSalesAnalysis)) 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](https://github.com/19035100Arpit)) 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.