ARSHID BANU SHAIK

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EDUCATION

INDIRA GANDHI DELHI TECHNICAL UNIVERSITY FOR WOMEN Graduating May 2025
Bachelor of Technology 9.16/10 CGPA
Relevant coursework: Artificial Intelligence, Machine learning, Data Science, Database Management Systems, Object Oriented Programming.

NARAYANA JUNIOR COLLEGE May 2020
Board of Intermediate Education Andhra Pradesh, class XII. 970/1000

RESEARCH EXPERIENCE

Carnegie Mellon University | Research Intern *October 2024 – March 2025*

- Worked remotely at the XU lab within the CMU School of Computer Science, in the Machine Learning Domain on a project focused on computer vision and pattern recognition.

Centre of Excellence in Artificial Intelligence, IGDTUW | Research Intern *June 2024 – October 2024*

- Conducted research on Lung Cancer Classification using deep learning architectures such as ResNet-50, DenseNet-121, and GoogLeNet and authored the paper "Enhanced Lung Cancer Classification Using Contrast-Enhanced Imaging and Deep Learning Architectures".

PUBLICATIONS

Book Chapters

- Chawla, T., Rukhaiyar, V., Banu, S.A. and Singh, S., 2025. The future of tissue engineering: Integrating ML, AI, and computer vision. *Tissue Engineering and Regenerative Medicine: Advances and Applications*, p.24. *DOI:10.1201/9781003536352-2*
- Banu, S.A. and Singh, S., 2025. Natural biomaterials for tissue engineering and regenerative medicine. *Tissue Engineering and Regenerative Medicine: Advances and Applications. DOI:10.1201/9781003536352-4*

Research Papers

- "Enhanced Lung Cancer Classification Using Contrast-Enhanced Imaging and Deep Learning Architectures," Shaik Arshid Banu and Ritu Rani, accepted at *International Conference on Augmented Reality, Intelligent Systems, and Industrial Automation (ARIIA) 2024,* Scopus-indexed, IEEE Xplore. *DOI:10.1109/ARIIA63345.2024.11051774*
- Banu, S.A., Mohapatra, G., Kushwaha, S., Himani, H., Tanwar, L. and Singh, S., 2025, January. Machine learning assisted prediction of creep life in Ni-based alloys: An ensemble-based stacking regressor approach. In *2025 International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE)* (pp. 1-7). IEEE. *DOI:10.1109/IITCEE64140.2025.10915366*

PROJECTS

LUNG CANCER CLASSIFICATION

- Developed a hybrid model for lung cancer classification combining contrast enhancement methods, feature extraction using seven deep learning models finally classifying the images into benign, malignant and normal by SVM classifier achieving an accuracy of 96%.

SURFACE DEFECT DETECTION

- Developed and implemented deep learning algorithms using Sequential and Functional frameworks for Surface Defect Detection on Steel, achieving 97% accuracy in crack detection and conducted extensive performance analysis and visualization, comparing model accuracy, loss curves, and test predictions for both Sequential and Functional models.

WORK EXPERIENCE

Graduate Engineer Trainee (Data Scientist) | Kenvue *August 2025 – Present*

- Leveraging Generative AI and Large Language Models to generate actionable insights for optimizing supply chain operations.
- Applying machine learning, statistical analysis, and AI-driven forecasting models for demand prediction and process optimization.
- Working on the implementation of Agentic AI solutions to enable autonomous decision-making and enhance operational efficiency.
- Collaborating with cross-functional teams to translate data insights into scalable, data-driven strategies for process improvement.

INTERNSHIP EXPERIENCE

Salesforce Developer Engineer | Keysight Technologies - Keysight Global Sales *January 2025 – July 2025*

- Onboarded as a Salesforce Developer, gaining hands-on experience with Salesforce CRM.
- Assisting in customizing and optimizing sales processes within Salesforce.

Open-Source Contributor | Girl Script Summer of Code *May 2024 – July 2024*

- Contributed to Machine Learning Projects and successfully merged 4 pull requests in Machine Learning Repositories on Audio Anomaly Detection in the voice, Model performance monitoring, Transfer Learning with VGG16 and ResNet-50.

Machine Learning and Deep Learning Intern | AIQUANTUM SMART SOLUTIONS PVT. LTD. *May 2023 – July 2023*

- Developed deep learning models using Convolutional Neural Network (CNN) architecture for steel surface crack detection, achieving an accuracy of 97%.

SKILLS

Technical Languages: C, C++, Python, JavaScript, HTML, CSS, ReactJS, NodeJS.

Frameworks and Tools: TensorFlow, Keras, PyTorch, MySQL, Bootstrap, Flutter.

Machine Learning: Supervised/Unsupervised Learning, SVM, Deep Learning, Neural Networks.

Certifications: Coursera Learner- Supervised Machine Learning: Regression and Classification, Coursera.

EXTRACURRICULAR ACTIVITIES

Management Head | Training and Placement Cell, IGDTUW *May 2024 – May 2025*

- Leading and coordinating placement-related activities, bridging the gap between students and recruiters.
- Organizing workshops, career guidance sessions, and industry interactions for student upskilling.

Junior ExComm Member | IEEE IGDTUW *March 2022 – May 2024*

- Conducted technical workshops and bootcamps for students on emerging technologies.
- Assisted in organizing IEEE events, fostering collaboration, and mentoring peers.

Mentor | Desh Ke Mentor (Delhi Government Initiative) *Feb 2022 – July 2022*

- Mentored 6 high school girls, providing career guidance and motivation.
- Helped students navigate their educational paths with clarity and confidence.

ACHIEVEMENTS

- Selected as delegate at Harvard Project for Asian and International Relations 2024 at Chulalongkorn university, Bangkok.
- Winner at Web3Apps Hackathon hosted by MLH [March 29 2024 - March 31 2024] for innovative project development of a game using blockchain Technologies.
- Top Contributor at Google Developer Student Clubs – IGDTUW's Snow Script Winter of Code (2024).
- Selected for Indian Regional Bootcamp 2024 as a part of Google Solution Challenge