



Adil Bashir Bhat

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Date of Birth: 20-04-1999



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Nationality: Indian

SUMMARY

I am an experienced researcher with a strong background in Plant sciences, Molecular Biology, Cell Biology, synthetic biology, Plant Physiology, Mycology and Plant breeding. I was honored with a competitive summer research fellowship for distinguished academic performance. My understanding of concepts and project-based experience has enabled me to develop multiple projects in this domain. I am dedicated to apply my skill set in research, particularly in sustainable agriculture.

HONOURS AND AWARDS

- Four-time consecutive National level scholarship, Govt. of India
- Higher Education Commission Scholarship Winner
- University Merit Scholarship Winner

EDUCATION AND TRAINING

09/2021 – 08/2024

integrated Botany (Bsc. and Msc 5yr) Cluster university of srinagar Final Grade: **7.5** Class Rank: **03**

Project Title: Mycorrhizal status of *Colchicum luteum* from Kashmir Himalayas

Description:

- Assessment of Vesicular Arbuscular Mycorrhiza (VAM) colonization percentage in *Colchicum luteum*
- Comparative evaluation of arbuscular mycorrhizal fungal diversity and root colonization patterns in
- *Colchicum luteum* populations
- Investigation of mycorrhizal association intensity.

RESEARCH EXPERIENCE

Summer Research fellow(competitive fellowship of india INSA/NASI bengalore lasc): 2021 aug – 2021 oct *Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir*

Country: Indian

Projects: Molecular Biology Techniques

1) Molecular Biology Techniques:

- Performed DNA, RNA, and protein extraction from plant and microbial samples for downstream molecular analyses.
- Applied PCR, RT-PCR, and gel electrophoresis techniques to amplify and visualize genetic material with high accuracy.

2) Plant Physiology:

- Conducted controlled experiments to study photosynthetic efficiency and stomatal regulation under varying light and water conditions.
- Utilized advanced physiological measurement tools (e.g., IRGA, chlorophyll fluorometer) to quantify gas exchange and chlorophyll dynamics.
- Investigated the impact of abiotic stress factors such as drought and salinity on plant growth, water relations, and nutrient uptake.

3) Vehicle Recognition System (VRS) using low cost IEEE 802.15.4

- Performed cell culture techniques for maintaining and observing growth, differentiation, and stress responses under controlled conditions.
- Applied staining methods (e.g., DAPI, acetocarmine) and fluorescence microscopy to visualize chromosomal behavior and cellular dynamics.
- Collaborated with cross-disciplinary teams to integrate cell-level observations with molecular and physiological data for comprehensive analysis.

● SKILLS & COMPETENCIES

- **Web development:** wordpress web development.
- **Computer Vision & AI:** OpenCV, TensorFlow, Image Segmentation, Object Detection, CNNs.
- **Data Science:** Pandas, NumPy, Cloud Deployment (Docker)
- **Research & Documentation:** LaTeX, Microsoft Word, PowerPoint, Excel (academic writing, technical documentation, research presentations)

● WORK EXPERIENCE

Freelance Developer & Technical Trainer 2022 – CURRENT

UPWORK, FREELANCERR

- Independent applied research and development in plant sciences.
- Delivered multiple projects combining Full-Stack and wordpress sites.
- cpanel management, large datasets management.
- Developed smart solutions like online examination system.

Technical Trainings in Collaboration with kashmirnews, examprinted 2022 –

2023 SKUAST K. **Country:** INDIA

Title: Training Program Lead

Description:

- Guided students in designing experiments to measure photosynthesis rates and understand plant responses to environmental stresses.
- Provided hands-on training in using physiological instruments like gas analyzers and chlorophyll meters for accurate data collection.
- Advised on data interpretation and troubleshooting challenges related to plant-water relations and nutrient uptake studies.
- Fostered collaboration among mentees to integrate physiological concepts with practical applications in agriculture and research.

● CONFERENCES AND SEMINARS

2021 Sri Pratap College and Skuast K, Srinagar

workshop on horticultural Technology

Exploring the emerging challenges and opportunities of horticulture in the modern era, with a balanced focus on industry, academia, and the public sector.

02/2019 Srinagar

TWO DAYS NATIONAL WORKSHOP ON ENTREPRENEURSHIP

Speaker: Dr, SHABANA ASLAM (Assistant Professor BOATNY)

ITS Introduction, implementation and Integration, Intelligent strategies for successful business.

Virtual Summit on Artificial Intelligence in Information and Communication

The summit covered a wide range of topics, including Networking Security & IoT, Image Processing & Multimedia, Healthcare, Control & Decision Systems, and Energy Storage.

Webinar: on cell biology

09/2020

- overcoming difficulties with maintaining sterile conditions and contamination control in cell culture experiments.
- Resolve data interpretation issues when correlating cell morphology changes with biochemical or molecular markers.

● **ONLINE CERTIFICATIONS**

1) Diploma **in computr science**

2) GenAI for Executives & Business Leaders: An Introduction

Grade Achieved: 80%

3) What is Data Science?

Grade Achieved: 95.50%

● **RECOMMENDATIONS**

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, Sher-e-Kashmir University of Agricultural Sciences and Technology
of Kashmir.

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