

BIO-DATA

Dr. Ashutosh Kumar

Horticulture Scientist | Vegetable Science Specialist | Extension & Climate-Smart Agriculture Expert

1. Professional Identity

Dynamic agricultural academic with strong integration of **teaching, research, and extension**, specializing in vegetable science, crop modeling, and climate-resilient horticulture. Demonstrated capability in translating scientific innovations into field-level impact through KVK-based technology dissemination and training ecosystems.

2. Academic Profile at a Glance

Academic Indicator	Strength
Highest Qualification	Ph.D. – Vegetable Science
Core Expertise	Vegetable Production & Crop Modeling
Professional Experience	~7+ Years (Research + Extension)
Research Papers	9+ Peer-Reviewed Publications
Books Edited	3
ICAR Projects	Multiple (Co-PI Role)
Awards	National & International
Teaching Language	English & Hindi

3. Academic Qualifications

Ph.D. – Vegetable Science

Bihar Agricultural University, Sabour (2021) – 82.30%

Major: Vegetable Science | Minor: Agronomy | Supporting: Soil Science

M.Sc. – Vegetable Science (Horticulture)

SKUAST-Kashmir (2015) – 77.20%

B.Sc. (Hons.) – Horticulture

Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth (2013) – 81.20%

4. Research Identity & Scientific Strength

Doctoral Research Excellence

Research Title:

Effect of microenvironment and nitrogen levels on cabbage growth & simulation analysis.

Scientific Impact Highlights

- Optimized transplanting window and nitrogen management for yield enhancement.
- Applied DSSAT simulation modeling for precision prediction.
- Climate-risk and yield variability analysis for resilient farming.
- Developed practical management strategies for sustainable production.

Research Positioning:

→ Crop Modeling + Climate Resilience + Nutrient Optimization

5. Professional Experience & Academic Leadership

Subject Matter Specialist (Horticulture)

Dr. Rajendra Prasad Central Agricultural University, Pusa

KVK Sheohar (2018–2024)

- Technology assessment & refinement
- Training, extension and research integration
- Farmer capacity-building programs

KVK Narkatiyaganj (2024–2026)

- Advanced extension strategy implementation
- Horticulture demonstrations and knowledge dissemination

Academic Identity: Extension-driven scientist with strong field impact.

6. Research Output & Scholarly Influence

Peer-Reviewed Publications (9+)

Research areas include:

- Microenvironment & nutrient management
- Protected cultivation systems
- Vegetable seed production technology
- Precision irrigation & fertigation
- Plant health management

Publication Strategy: Applied research with practical agricultural outcomes.

7. Books, Editorial & Knowledge Leadership

- First Editor — *Production of Major Vegetable Crops* (2025)
- First Editor — *Khaadya Vigyaan Aur Poshan Ke Siddhant* (2025)
- Co-Editor — *Cultivation of Arid Fruit Crops* (2024)
- Book Chapter — Grafting for stress tolerance in vegetables

Academic Branding: Knowledge synthesizer & curriculum contributor.

8. Research Grants & Project Engagement

Role: Co-Principal Investigator (ICAR Projects) (2022- 2024)

- NHM Project
- SCSP Project
- PKVY Project

Focus areas:

- Sustainable horticulture
- Technology transfer models
- Farmer-centered research outcomes

9. Academic Recognition

🏆 Popular Extension Worker Award (2021)

🏆 Young Scientist Award (2023)

Recognition Positioning: Research + Extension balance (rare strength in selection panels).

10. Teaching & Learning Excellence

Teaching Strategy

- Blended learning & experiential pedagogy
- Field-integrated teaching models
- Data-driven learning assignments
- Digital agriculture and simulation tools

Learning Environment Vision

- Student-centered innovation culture
- Real-world problem solving
- Inclusive and collaborative learning

11. Professional Membership

Lifetime Member – Indian Society of Vegetable Science