Curriculum Vitae

BASAVARAJ NARGAL

An MSc graduate in Plant Sciences from Wageningen University, Netherlands specialized in Crop Science.

Eager to utilize my agricultural academic background, hands-on fieldwork experience, and adeptness in data analysis, alongside my proficiency in crop modelling, I am actively looking to make impact *in sustainable agriculture domain*.

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🏠 Ahmedabad, India

SKILLS

- Agronomy of field crops
- Crop yield modelling-process based and machine learning approach
- Use of crop models- DSSAT, FarmTree, CROPWAT
- Python, R, GenStat
- QGIS, ArcGIS
- MS Office, Canva

LANGUAGES

- English (C1)
- Kannada (Native)
- Hindi (B2)
- Telugu (B2)
- Tamil (B1)
- Dutch (A1)

WORK EXPERIENCE

1. Digital Agronomist – Materra Tech, Ahmedabad, India
Oct 2024 – Present
Cotton crop modelling.
Utilized data analysis and agronomic expertise to build empirical yield estimation models for smallholder cotton farmers, integrating remote sensing satellite data, weather variables, and soil properties. Designed and implemented data collection protocols using the QField app for model calibration, while training field workers on its effective use to enhance informed decision-making.

2. Quality Control Expert- Digital Observer, Inc., Alaska, USA.
June 2024- July 2024

3. Agriculture Intern– FairChain foundation, Netherlands
Oct 2023- Feb 2024
The FarmTree agroforestry model was employed to simulate initiatives of the FairChain on smallholder coffee agroforestry systems in Ethiopia, with the outcomes visualized using interactive maps and graphs. Part of the project can be found at the following link:
https://basunargal.github.io/1/

4. Academic Consultancy Training- Wageningen University & Research.
Nov 2022- Dec 2022
Worked for **East-West Seeds Indonesia and NUFFIC** on "Exploring the potential for circular and participatory agriculture in the Humbang Hasundutan Food Estate, Indonesia"
Role: Manager
As a Manager of the consultancy team, I successfully demonstrated essential skills in leading the team to attain desired results while nurturing a constructive team atmosphere

5. Agriculture officer- South Indian Bank, India
Apr 2021 to Dec 2021
In my role improving agriculture credit for the bank, I regularly exceeded sales goals, evaluated crop values on field trips, built strong ties with agribusinesses, provided tailored financial solutions for clients, and upheld documentation standards. As a result, the agriculture credit portfolio grew steadily.

EXTRACURRICULAR ACTIVITIES

- Played Cricket and Football for Post-graduate Dharwad team during 2018-19 and 2019-20.
- Quizzer, Intercollegiate Annual Youth Fest, College of Agriculture Dharwad, Post-graduate team during 2019-20.

COMMUNITY AND VOLUNTEER ACTIVITIES

- **WWOOF** Vilshofen, Germany, 2022. Volunteered in an organic farm in the summer of 2022, which helped me gain firsthand experience with organic farmers in Europe. https://wwoof.de/en/user/411041
- **National Service Scheme** (2014-2018)
- Volunteered for the smooth functioning of Krishi Mela (Farmer's fair) during my bachelor's and master's degrees.
- Organized fundraising and relief materials collection campaign for Kodagu and Kerala (India) natural disaster in 2018.

INTERESTS

- Field agronomy
- Crop modelling
- Agricultural advisory
- Rural community development
- Sports- Squash, Cricket, Swimming
- Cooking

SOFT SKILLS

Strategic planning, Teamwork, Adaptability, Leadership, Negotiation, Cultural Awareness, Decision-making, Problem solving:

EDUCATION

MSc Plant Sciences (GPA- 7.3/10)
Wageningen University & Research, Netherlands
Feb-2022 to Feb-2024
Specialization: Crop Science
Thesis: "_Influence of climate change on wheat yield in Morocco under current and agroecological cropping practices explored with the crop module of DAHBSIM_"
Employed GAMS and CROPWAT to develop a crop model that simulated water-limited wheat yields in Morocco under current and climate change scenarios. Also adapted this model to study the impact of mulching, an agroecological practice aimed at conserving soil moisture and reducing the influence of water stress, within the context of climate change scenarios.

M.Sc. Agriculture (GPA- 9.2/10)
University of Agricultural Sciences, Dharwad, India.
Oct-2018 to Dec-2020
Specialization: Agricultural Meteorology
Thesis: "_Simulated impacts of projected climate on maize hybrid NK-6240 and its adaptations in north interior Karnataka_" The DSSAT crop simulation model was used as a tool in this study.
Field Activities- Conducted Maize field trials to collect data for calibration of the crop model.

B.Sc. Agriculture (GPA-8.7/10)
University of Agricultural Sciences, Dharwad, India.
2014 to 2018
Introductory and advance courses on Agriculture and allied subjects

SCHOLARSHIPS

- Wageningen University Fellowship Programme (WUFP) and Anne van den Ban Scholarship Fund (ABF)- 2022-2024
- UAS Dharwad Merit Scholarship in 2018-19 and 2019-20 academic years.
- UAS Dharwad Gold medal- 2021

PUBLICATION

- **Author:** "Potential and Rainfed Yield Gap for Maize Hybrid NK-6240 under Current Climate of North Interior Karnataka: DSSAT Model based Assessment" in the Int.J.Curr.Microbiol.App.Sci. doi:https://doi.org/10.20546/ijcmas.2020.912.26
- **MSc Thesis-** https://edepot.wur.nl/640259