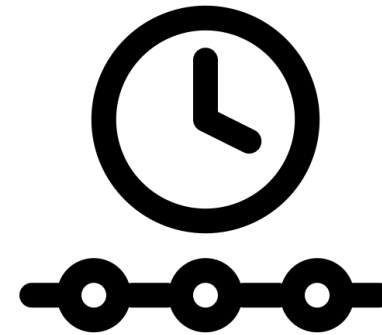


Using Generative AI for software development

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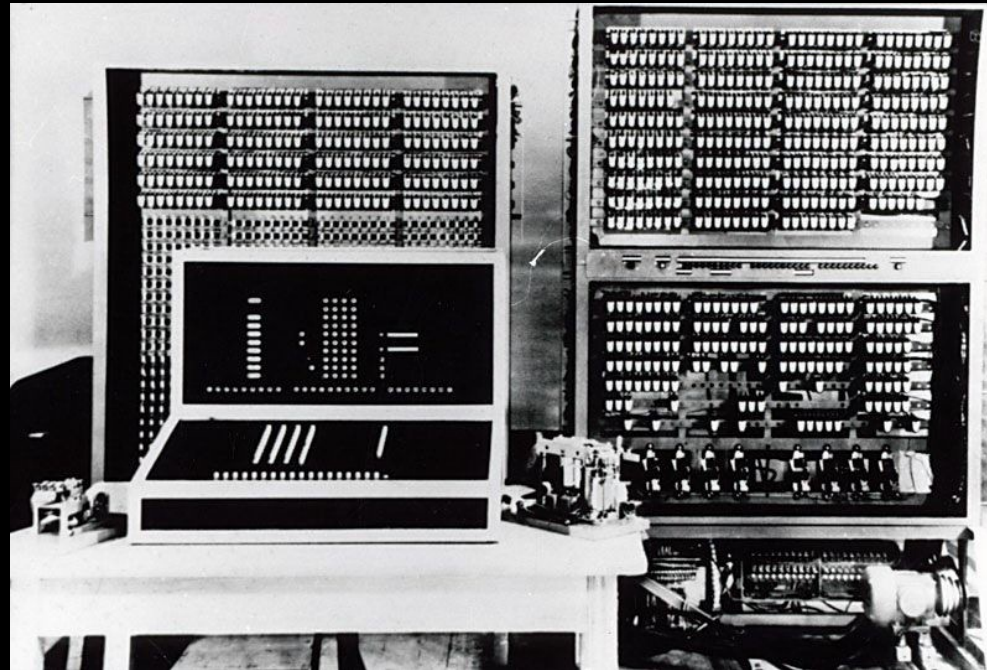
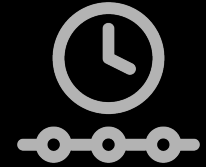
Nikola Miladinovic

History of software development



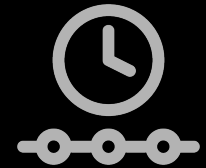
History of software development

1940-1950



History of software development

1960-1970



```
>Edit: A(dist C(opy D(lete F(ind I(nsrst J(omp R(place Q(uit X(chng Z(ap [1.1]
8  USES APPLESTUFF
   PROGRAM SIREN
   INTEGER CYCLES, PITCH

   DO 30 CYCLES = 1, 15

       DO 10 PITCH = 30, 50
           CALL NOTE (PITCH, 1)
10      CONTINUE

       DO 20 PITCH = 50, 30, -1
           CALL NOTE (PITCH, 1)
20      CONTINUE

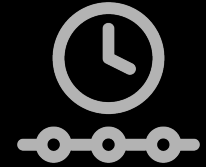
30     CONTINUE

   WRITE (*, 40)
40    * CHAR(15), 'YOU'RE UNDER ARREST, JOE FORTRAN!', CHAR(14)
   FORMAT (A, A, A)

   END
```

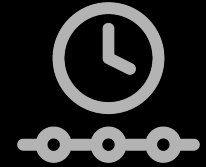
History of software development

1970-1980



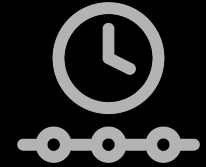
History of software development

1990-2000

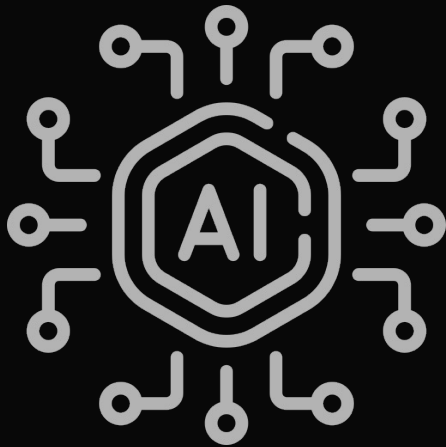


History of software development

2000-Present

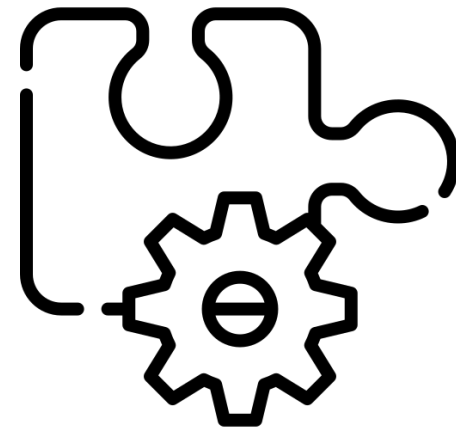
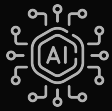


Generative AI and software development



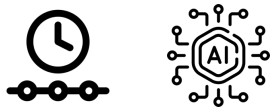
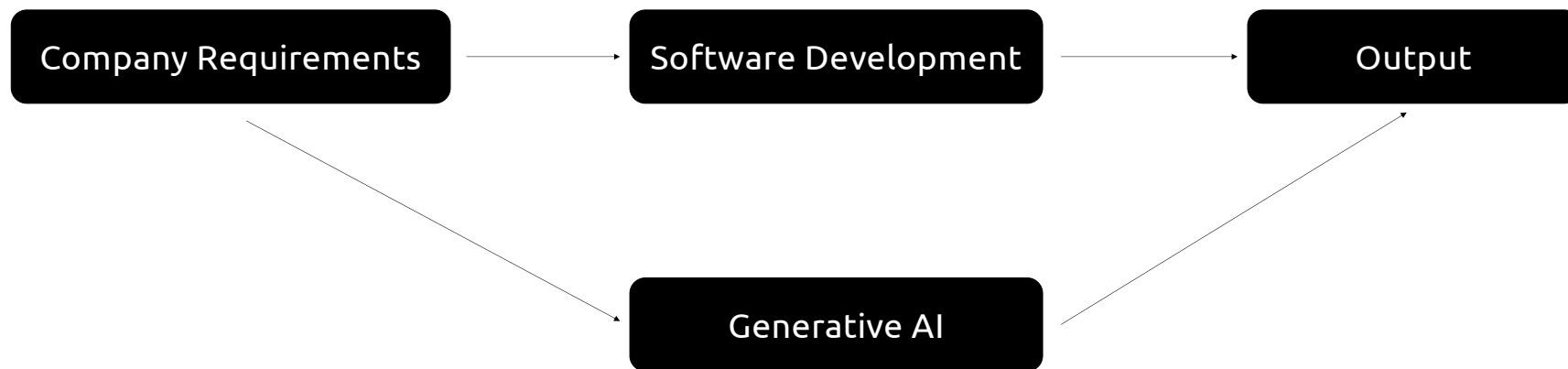
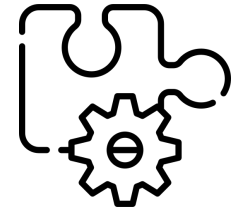
- Code Generation and Assistance
- Refactoring and Optimization
- Documentation and Code Comments
- Testing and Debugging
- Security
- Project Management

Software without coding

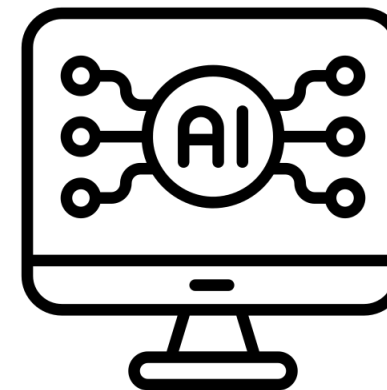


Software without coding

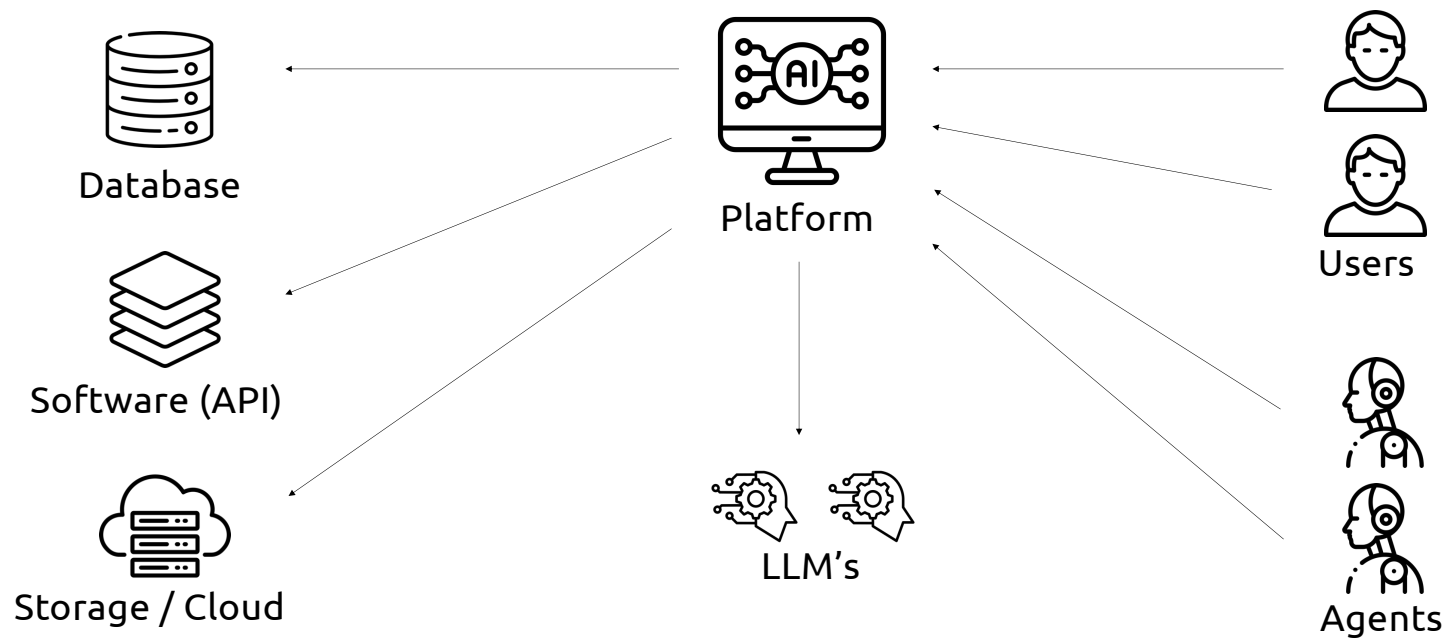
Software Development Process



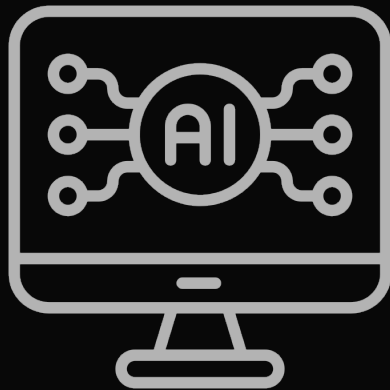
AI platform



AI platform Overview



AI platform



- Agents with expert domain knowledge
- Agents can be reactive, proactive
- System prompts
- Guardrails
- Fine tuning of models
- How to ask questions, junk in, junk out
- Chat between users and agents



AI fails



- McDonald's
- Chevrolet



Using Generative AI for software development

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Lunistra

Private and secure collaborative AI platform