ANAGA MANOHAR (airen K(t) = a1t2 + a2t + a3 = 9 Findir a, 92, 93?
Now we form A as Vandermonde matrix Find - 0,92,03? =) \[\frac{t_1}{t_1} \frac{t_1}{t_2} \]
\[\frac{t_1}{t_2} \frac{t_2}{t_3} \]
\[\frac{t_2}{a_2} \]
\[\frac{t_3}{a_2} \]
\[\frac{t_2}{a_3} \]
\[\frac{t_3}{t_3} \]
\[\frac{t_3}{t_3} \]
\[\frac{t_2}{t_3} \]
\[\frac{t_3}{t_3} \]
\[\frac{ $An = \begin{bmatrix} 1 & -1 & 1 \\ 1 & -0.5 & 0.25 \end{bmatrix} \begin{bmatrix} 0.3 \\ 0.2 \end{bmatrix} = \begin{bmatrix} 0.5 \\ 0.5 \end{bmatrix} = b$ $\begin{bmatrix} 0.5 & 0.25 \\ 1 & 1 \end{bmatrix} \begin{bmatrix} 0.5 & 0.25 \\ 1 & 1 \end{bmatrix}$ Now as the system is overdetermined (m>n) we use LLS to find $n = \begin{bmatrix} a_1 \\ a_2 \end{bmatrix}$

Normal John Ab = AAn o) n= (ATA). AT. b From the code implementation we get $n = \begin{bmatrix} a_3 \\ a_2 \end{bmatrix} = \begin{bmatrix} 0.086 \\ 0.01 \\ 0.01 \end{bmatrix}$ Thus

[p(t)= 1.412 + 0.086] Thus